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SALUS POPULI SUPREMA LEX ESTO

"The welfare of the people shall be the supreme law."



ROBIN CARNAHAN
SECRETARY OF STATE

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REGISTER

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Documents will be accepted for filing on all regular workdays from 8:00 a.m. until 5:00 p.m. We encourage early filings to facilitate the timely publication of the *Missouri Register*. Orders of Rulemaking appearing in the *Missouri Register* will be published in the *Code of State Regulations* and become effective as listed in the chart above. Advance notice of large volume filings will facilitate their timely publication. We reserve the right to change the schedule due

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RULES—Cite material in the *Missouri Register* by volume and page number, for example, Vol. 28, *Missouri Register*, page 27. The approved short form of citation is 28 MoReg 27.

The rules are codified in the *Code of State Regulations* in this system—

Title	Code of State Regulations	Division	Chapter	Rule
1	CSR	10-	1.	010
Department		Agency, Division	General area regulated	Specific area regulated

They are properly cited by using the full citation , i.e., 1 CSR 10-1.010.

Each department of state government is assigned a title. Each agency or division within the department is assigned a division number. The agency then groups its rules into general subject matter areas called chapters and specific areas called rules. Within a rule, the first breakdown is called a section and is designated as (I). Subsection is (A) with further breakdown into paragraph 1., subparagraph A., part (I), subpart (a), item I. and subitem a.

RSMo—The most recent version of the statute containing the section number and the date.

Rules appearing under this heading are filed under the authority granted by section 536.025, RSMo 2000. An emergency rule may be adopted by an agency if the agency finds that an immediate danger to the public health, safety or welfare, or a compelling governmental interest requires emergency action; follows procedures best calculated to assure fairness to all interested persons and parties under the circumstances; follows procedures which comply with the protections extended by the *Missouri* and the *United States Constitutions*; limits the scope of such rule to the circumstances creating an emergency and requiring emergency procedure, and at the time of or prior to the adoption of such rule files with the secretary of state the text of the rule together with the specific facts, reasons and findings which support its conclusion that there is an immediate danger to the public health, safety or welfare which can be met only through the adoption of such rule and its reasons for concluding that the procedure employed is fair to all interested persons and parties under the circumstances.

Rules filed as emergency rules may be effective not less than ten (10) days after filing or at such later date as may be specified in the rule and may be terminated at any time by the state agency by filing an order with the secretary of state fixing the date of such termination, which order shall be published by the secretary of state in the *Missouri Register* as soon as practicable.

All emergency rules must state the period during which they are in effect, and in no case can they be in effect more than one hundred eighty (180) calendar days or thirty (30) legislative days, whichever period is longer. Emergency rules are not renewable, although an agency may at any time adopt an identical rule under the normal rulemaking procedures.

Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 23—[Division of Geology and Land Survey]
Geological Survey and Resource Assessment Division
Chapter 3—Well Construction Code

EMERGENCY AMENDMENT

10 CSR 23-3.100 Sensitive Areas. The division is amending the division title, adding a new section (7) and one new form; also updating the forms that follow this rule in the *Code of State Regulations*.

PURPOSE: *This amendment requires more stringent well drilling standards be utilized in areas where groundwater is contaminated with perchloroethylene (PCE) or its degradation products in the New Haven, Franklin County, vicinity.*

EMERGENCY STATEMENT: *The Department of Natural Resources' Well Installation Board (WIB) has determined that an emergency amendment is necessary to implement appropriate and enforceable well drilling standards in the New Haven, Franklin County, area due to groundwater contamination. Perchloroethylene (PCE), a suspected human carcinogen, has contaminated groundwater in and south of New Haven at concentrations that pose a threat to human health. An unincorporated area south of the city of New Haven is not served by a public water supply and is undergoing rapid residential housing development. New houses built in this area need private water wells to supply a permanent source of water. Utilizing normal well installation guidelines will result in these wells becoming contaminated,*

*exposing the well users to PCE contamination. In addition, using normal well installation guidelines may provide a conduit for PCE contamination to enter deeper portions of the groundwater aquifer. The deeper portions of the aquifer provide the water supply for the city of New Haven. The WIB finds that an immediate danger to the health of New Haven area residents exists due to the potential exposure of residents to PCE-contaminated drinking water. The WIB finds that this emergency amendment is necessary to implement appropriate well installation guidelines to minimize risks to private water well users and the groundwater aquifer that serves as the source of public water for the city of New Haven. The WIB also finds that this emergency amendment is necessary to preserve a compelling government interest in protecting Missouri's groundwater resources. The scope of this emergency amendment is limited to circumstances creating the emergency and complies with the protections extended in the *Missouri* and *United States Constitutions*. The WIB believes that the emergency amendment is fair to all interested persons and parties under the circumstances. This emergency amendment was filed March 21, 2005, effective April 1, 2005, expires September 27, 2005.*

(7) **Special Area 3.** Portions of Franklin County within and south of the city of New Haven shall be listed as Special Area 3 (Figures 7B and 7C included herein) due to the contamination of portions of the aquifer by one (1) or more of the following chemicals of concern: tetrachloroethylene (PCE), trichloroethylene (TCE), PCE degradation products and TCE degradation products or other contaminants of the National Public Drinking Water Regulations (NPDWR). In this area it is necessary to utilize more stringent well construction standards for new wells that are drilled into the aquifer and to limit the deepening of existing upper aquifer wells.

(A) The division shall be consulted before constructing a new well in Special Area 3. The division will provide specific guidance on well drilling protocol and construction specifications on a case-by-case basis. The division must provide approval for all new wells prior to construction.

(B) Before deepening a well in Special Area 3, groundwater sampling and analysis for the chemicals of concern must be conducted and the data submitted within sixty (60) days of the sampling event by the well installation contractor to the division. The division must provide approval for the deepening of all new wells in Special Area 3. Wells that have been sampled and analyzed and are contaminated with chemicals of concern exceeding maximum contaminant levels (MCLs) and/or action levels (ALs) shall not be deepened.

(C) In addition to specific instructions that are provided by the division pursuant to 10 CSR 23-3.100(7)(A) and (B), the following must be performed at all new wells installed in Special Area 3:

1. All drilling-derived fluid and solid materials shall be containerized and sampled before disposal in an appropriate location based on analytical results.

2. All new and deepened old wells in Special Area 3 shall be constructed with a sampling port or tap within ten feet (10') of the wellhead. Water must be purged from the sampling port prior to collection of a sample.

3. After proper well development, water from all new wells located in Special Area 3 shall be sampled and analyzed for the chemicals of concern, as determined by the division. Qualified and properly trained persons must complete sample collection. In order to document sampling has occurred, a copy of the chain of custody form shall be submitted by the pump installation contractor to the division within sixty (60) days of pump installation.

4. The data report from all analyses shall be made available by the pump installation contractor to the division and the well owner within sixty (60) days of the sampling event.

(D) At any well being drilled, per division guidance, in which PCE and/or TCE is encountered in a pure-product phase, also known as Dense Non-Aqueous Phase Liquid (DNAPL), drilling shall cease and the division shall be notified immediately. The division will determine further action.

(E) Properly constructed new wells that, upon sampling and analysis, are contaminated at levels exceeding MCLs or ALs shall:

1. Be plugged full-length with high solids bentonite grout per 10 CSR 23-3.110; or

2. Install a water treatment system that is designed to properly treat the chemical(s) of concern. The well shall not be used for human consumption until sampling and analysis demonstrates that the water treatment system reduces contaminant levels below MCLs and/or ALs for all chemicals of concern. The division shall be provided a copy of the post-treatment analytical data by the pump contractor within sixty (60) days of the sampling event.

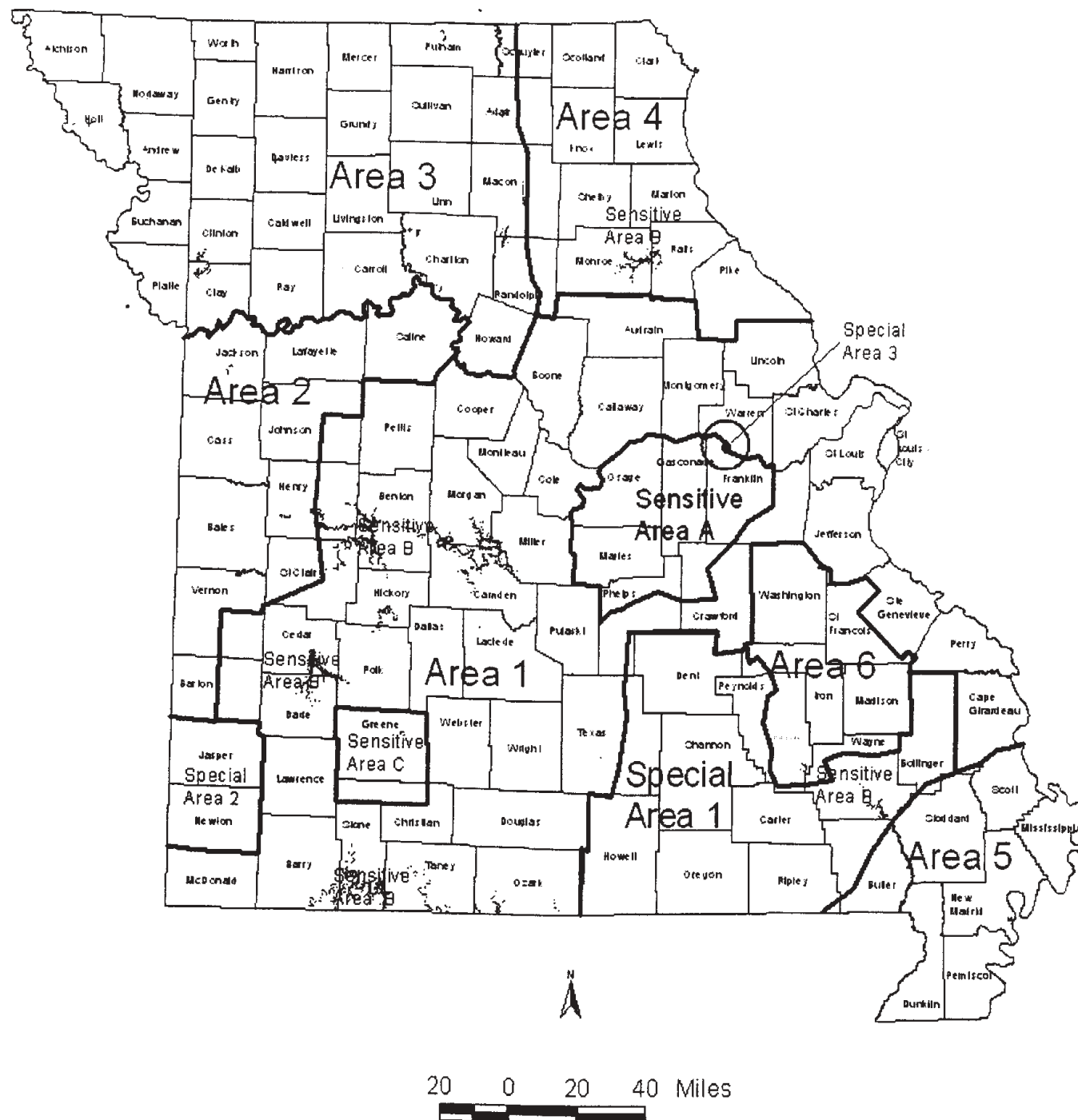


Figure 1. Map showing drilling areas for private well construction regulations. Areas are enlarged in maps on the following pages.

Area 1, Special Areas 2 and 3 and Sensitive Areas A, B, and C

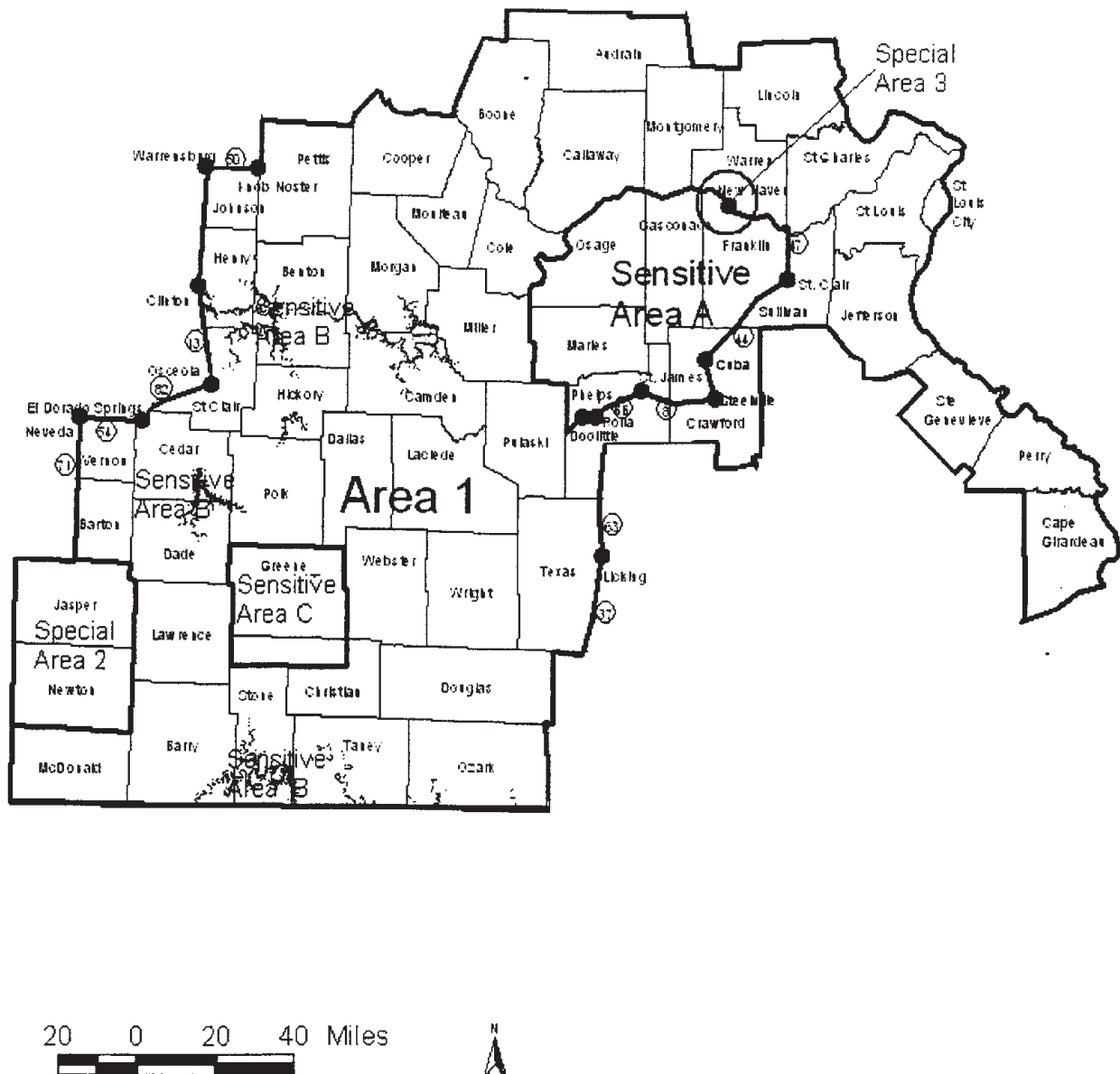


Figure 7B. Area 1, Special Areas 2 and 3, Sensitive Areas A, B, and C map.

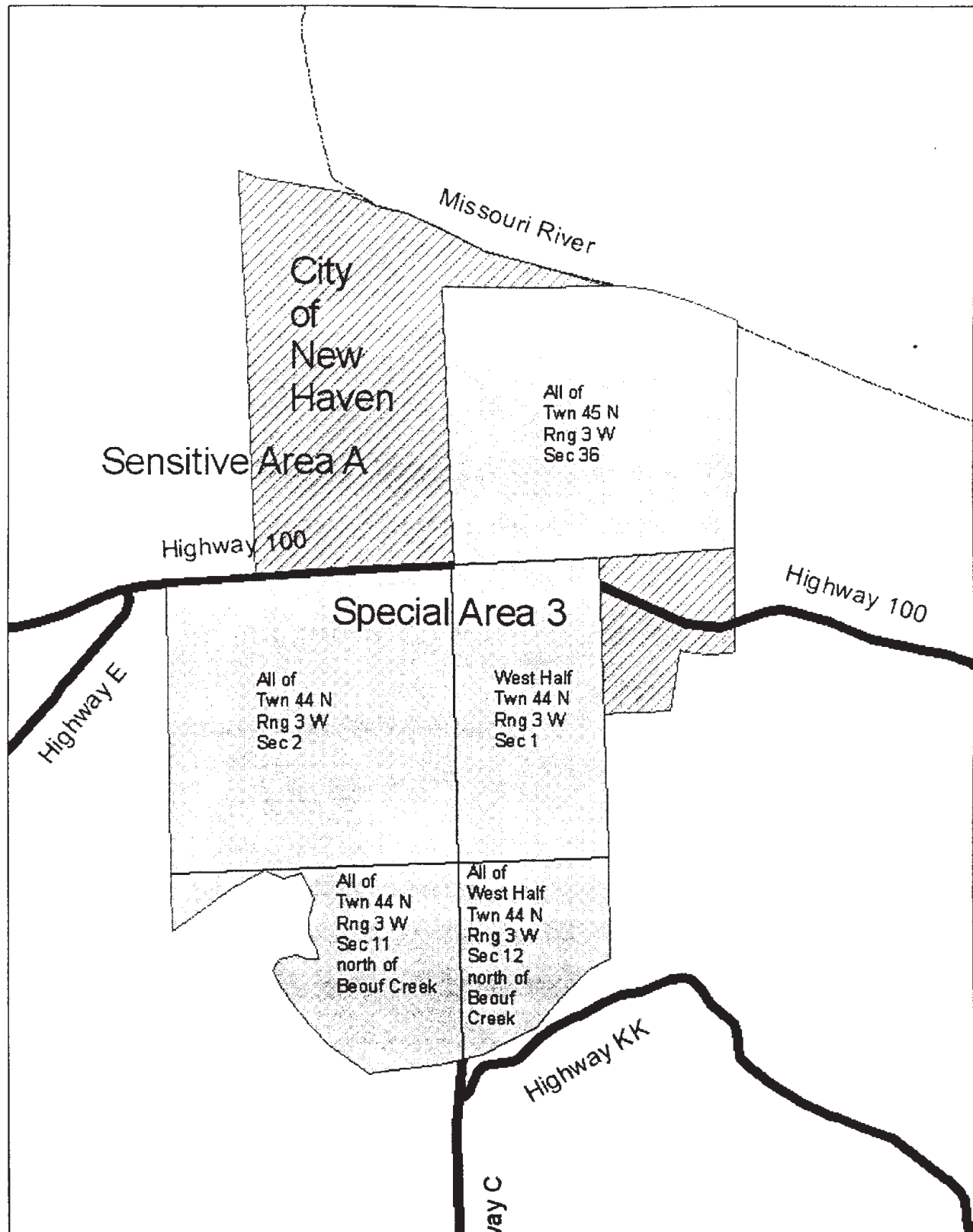


Figure 7C. Special Area 3 and Sensitive Area A

AUTHORITY: sections 256.606 and 256.626, RSMo 2000. Original rule filed April 2, 1987, effective July 27, 1987. For intervening history, please consult the Code of State Regulations. Emergency amendment filed March 21, 2005, effective April 1, 2005, expires Sept. 27, 2005.

Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 23—[Division of Geology and Land Survey]
Geological Survey and Resource Assessment Division
Chapter 5—Heat Pump Construction Code

EMERGENCY AMENDMENT

10 CSR 23-5.050 Construction Standards for Closed-Loop Heat Pump Wells. The division is amending the division title, sections (6) and (8) and adding a new section (12).

PURPOSE: This amendment requires more stringent heat pump well drilling standards be utilized in areas where groundwater is contaminated with perchloroethylene (PCE) or its degradation products in the New Haven, Franklin County, vicinity.

EMERGENCY STATEMENT: The Department of Natural Resources' Well Installation Board (WIB) has determined that an emergency amendment is necessary to implement appropriate and enforceable heat pump well drilling standards in the New Haven, Franklin County, area due to groundwater contamination. Perchloroethylene (PCE), a suspected human carcinogen, has contaminated groundwater in and south of New Haven at concentrations that pose a threat to human health. Using normal heat pump well installation guidelines may provide a conduit for PCE contamination to enter deeper portions of the groundwater aquifer. The deeper portions of the aquifer provide the water supply for the city of New Haven. The WIB finds that an immediate danger to the health of New Haven area residents exists due to the potential exposure of residents to PCE-contaminated drinking water. The WIB finds that this emergency amendment is necessary to implement appropriate heat pump well installation guidelines to minimize risks to the groundwater aquifer that serves as the source of public water for the city of New Haven. The WIB also finds that this emergency amendment is necessary to preserve a compelling government interest in protecting Missouri's groundwater resources. The scope of this emergency amendment is limited to circumstances creating the emergency and complies with the protections extended in the Missouri and United States Constitutions. The WIB believes that the emergency amendment is fair to all interested persons and parties under the circumstances. This emergency amendment was filed March 21, 2005, effective April 1, 2005, expires September 27, 2005.

(6) Hole Depth. Closed-loop heat pump wells must not be deeper than two hundred feet (200'). A variance must be obtained in advance, from the division, to drill a heat pump well deeper than two hundred feet (200'). A heat pump well drilled in Area C (see 10 CSR 23-3.100(3)) that is less than two hundred feet (200') deep and cuts the Northview Formation must have a thirty-foot (30') grout plug set starting at ten feet (10') below the bottom of the Northview Formation. A map will be provided by the division showing the depth the grout plug must start. Follow the grouting requirement set out in 10 CSR 23-5.050(8) for grouting the interval above the Northview Formation. **A heat pump well drilled in Special Area 3 shall not be deeper than one hundred fifty feet (150').** At any heat pump well being drilled, per division guidance, in which perchloroethylene (PCE) and/or trichloroethylene (TCE) is encountered in a pure-product phase, also known as Dense Non-Aqueous Phase Liquid (DNAPL), drilling shall cease and the division shall be notified immediately. The division will determine further action.

(8) Grouting Depth of Vertical Heat Pump Wells. Grouting the annulus of a heat pump well is very important and must be completed immediately after the well is drilled due to cave-in potential in the uncased hole. Full-length grout is recommended and may be required (see section (5)) to prevent surface contamination from entering the drinking water aquifer through the borehole. The grout required for heat pump wells greater than two hundred feet (200') in depth must be determined by the division in advance. A variance form will be issued setting the grouting requirements. If the heat pump borehole is not grouted full-length, hole size requirements stated in section (5) must be followed and non-slurry bentonite plugs must be placed into the borehole. A plug (first plug) must be placed about forty feet (40') above the total depth of the borehole. This plug must be composed of bentonite chips or pellets utilizing at least one (1) bag of bentonite resulting in at least a five foot (5') plug. Every forty feet (40') of borehole that exists above the first plug must have a plug set as described in this section. A near surface plug consisting of bentonite granules or powder must be set from a point ten feet (10') below the bottom of the trench, that connects the closed-loop to the heat pump machine, to the base of the trench. All bentonite plugs must be hydrated immediately after emplacement if they are in the unsaturated zone. All clean fill material placed between the bentonite plugs must be chlorinated. **Heat pump wells in the Special Area 3 must be grouted full length with thermal grout, placed from the bottom of the borehole up to ground surface.**

(12) Heat Pump Wells in Special Area 3. Portions of Franklin County within and south of the city of New Haven are listed as Special Area 3 (Figures 7B and 7C, 10 CSR 23-3.100(7)) due to the contamination of portions of the aquifer by one (1) or more of the following chemicals of concern: tetrachloroethylene (PCE), trichloroethylene (TCE), PCE degradation products and TCE degradation products or other contaminants of the National Public Drinking Water Regulations (NPDWR). In this area it is necessary to utilize more stringent construction standards for new heat pump wells that are drilled into the aquifer. In Special Area 3 a qualified and properly trained individual shall collect all groundwater samples for analysis of chemicals of concern.

(A) The division shall be consulted before constructing a new heat pump well in Special Area 3. The division will provide specific guidance on heat pump well drilling protocol and construction specifications on a case-by-case basis. The division must provide approval for all new heat pump wells prior to construction.

(B) All drilling-derived fluid and solid materials shall be containerized and sampled before disposal in an appropriate location based on analytical results.

(C) At any heat pump well being drilled, per division guidance, in which PCE and/or TCE is encountered in a pure-product phase, also known as Dense Non-Aqueous Phase Liquid (DNAPL), drilling shall cease and the division shall be notified immediately. The division will determine further action.

AUTHORITY: sections 256.606 and 256.626, RSMo 2000. Emergency rule filed Nov. 16, 1993, effective Dec. 11, 1993, expired April 9, 1994. Original filed Aug. 17, 1993, effective March 10, 1994. Amended: Filed Nov. 1, 1995, effective June 30, 1996. Amended: Filed Dec. 16, 2002, effective June 30, 2003. Emergency amendment filed March 21, 2005, effective April 1, 2005, expires Sept. 27, 2005.

Title 13—DEPARTMENT OF SOCIAL SERVICES
Division 70—Division of Medical Services
Chapter 10—Nursing Home Program

EMERGENCY AMENDMENT

13 CSR 70-10.015 Prospective Reimbursement Plan for Nursing Facility Services. The division is adding subsection (20)(D).

PURPOSE: This amendment provides for the calculation of nursing facility Medicaid per diem rates effective for dates of service beginning April 1, 2005 to revise the rebase provisions to update the databank and to provide for a minimum utilization adjustment of eighty-five percent (85%) for the administration and capital cost components.

EMERGENCY STATEMENT: The Department of Social Services, Division of Medical Services by rule and regulation must define the reasonable costs, manner, extent, quantity, quality, charges and fees of medical assistance. The Department of Social Services must implement state law 208.225, RSMo, which requires the state to recalculate its Medicaid payments to nursing homes and provide payment rate increases over a three (3)-year period. For the fiscal year that ends June 30, 2005, the state's budget included \$42.5 million to fund those increases. The actual cost of implementing the payment rate increases, however, is approximately \$58.4 million. The division must take proactive action to create an efficient and sustainable Medicaid program. This emergency amendment provides for the recalculation of nursing facility Medicaid per diem rates effective for dates of service beginning April 1, 2005 to revise the rebase provisions to update the databank and to provide for a minimum utilization adjustment of eighty-five percent (85%) for the administration and capital cost components. These adjustments to calculation of nursing facility Medicaid per diem rates are necessary to ensure that payments for such nursing facility per diem rates are in line with the funds appropriated for that purpose. If the funds appropriated for the payment of medical assistance benefits at any time become insufficient to pay the full amount of the payment, no payment will be made through the Medicaid claims processing system. The Division of Medical Services is attempting to find a solution to this funding issue within the means that taxpayers, through the General Assembly, have given the division. There are a total of four hundred ninety-eight (498) nursing facilities currently enrolled in Missouri Medicaid. Of the total, one hundred six (106) nursing facilities have no rate reduction or a one (1) or two (2) cent net increase in their per day rate; one hundred sixty-three (163) facilities have a rate reduction of less than one dollar (\$1.00) to their per day rate; one hundred fifty-seven (157) facilities have a rate reduction of between one dollar (\$1.00) and one dollar ninety-nine cents (\$1.99) in their per day rate; fifty (50) facilities have a rate reduction of between two dollars (\$2.00) and two dollars ninety-nine cents (\$2.99) in their per day rate; eighteen (18) facilities have a rate reduction between three dollars (\$3.00) and three dollars ninety-nine cents (\$3.99) in their per day rate; and four (4) facilities exceed rate reductions of four dollars (\$4.00) per day. The continued availability of payment for mandatory nursing facility services to approximately twenty-five thousand (25,000) senior Missourians will ensure quality-nursing facility services continue to be provided to Medicaid patients in nursing facilities. This emergency amendment, that reduces payments to some nursing facility providers with an occupancy of less than eighty-five percent (85%), will ensure continued payment at the end of State Fiscal Year 2005 for nursing facility services. This emergency amendment must be implemented on a timely basis to ensure that quality nursing facility services continue to be provided to Medicaid patients in nursing facilities at the end of State Fiscal Year 2005. As a result, the Division of Medical Services finds an immediate danger to public health, safety and/or welfare and a compelling governmental interest, which requires emergency action. The Missouri Medical Assistance program has a compelling government interest in providing continued cash flow for nursing facility services. The scope of this emergency amendment is limited to the circumstances creating the emergency and complies with the protections extended in the *Missouri* and *United States Constitutions*. The Division of Medical Services believes this emergency amendment is fair to all interested

persons and parties under the circumstances. Interested persons and parties were informed by news release and on the Division of Medical Services website that comments regarding recalculation of nursing facility Medicaid per diem rates would be accepted in writing until March 17, 2005. This emergency amendment was filed March 21, 2005, effective April 1, 2005, expires September 27, 2005.

(20) Rebasing of Nursing Facility Rates.

(D) Effective for dates of service beginning April 1, 2005, the rebased rates for SFY 2005 shall be calculated as follows:

1. The audited 2001 cost report data shall continue to be used to develop the databank and to determine each nursing facility's rebased rate. The audited 2001 cost report data; the licensed beds data; and the bed equivalencies data used to determine each nursing facility's final rate paid for dates of services effective July 1, 2004 shall be deemed final. This finalized data will be used as the base to calculate the rates effective April 1, 2005. The following items have been revised for the April 1, 2005 rate calculation:

A. A new databank shall be developed using the audited 2001 cost report data set forth above in paragraph (20)(D)1. for nursing facilities enrolled in the Medicaid program as of March 15, 2005 in accordance with subsection (4)(S).

B. The administration and capital cost components shall be adjusted for minimum utilization at eighty-five percent (85%) occupancy, rather than as set forth in paragraphs (20)(A)6.-7.

AUTHORITY: sections 208.153, 208.159 and 208.201, RSMo 2000. Emergency rule filed Dec. 21, 1994, effective Jan. 1, 1995, expired April 30, 1995. Emergency rule filed April 21, 1995, effective May 1, 1995, expired Aug. 28, 1995. Original rule filed Dec. 15, 1994, effective July 30, 1995. For intervening history, please consult the *Code of State Regulations*. Emergency amendment filed March 21, 2005, effective April 1, 2005, expires Sept. 27, 2005. A proposed amendment covering this same material appears in this issue of the *Missouri Register*.

**Title 13—DEPARTMENT OF SOCIAL SERVICES
Division 70—Division of Medical Services
Chapter 10—Nursing Home Program**

EMERGENCY AMENDMENT

13 CSR 70-10.080 Prospective Reimbursement Plan for HIV Nursing Facility Services. The division is adding subsection (20)(C).

PURPOSE: This amendment provides for the calculation of HIV nursing facility Medicaid per diem rates effective for dates of service beginning April 1, 2005 to revise the rebase provisions to update the databank and to provide for a minimum utilization adjustment of eighty-five percent (85%) for the administration and capital cost components.

EMERGENCY STATEMENT: The Department of Social Services, Division of Medical Services by rule and regulation must define the reasonable costs, manner, extent, quantity, quality, charges and fees of medical assistance. The Department of Social Services must implement state law 208.225, RSMo, which requires the state to recalculate its Medicaid payments to nursing homes and provide payment rate increases over a three (3)-year period. For the fiscal year that ends June 30, 2005, the state's budget included \$42.5 million to fund those increases. The actual cost of implementing the payment rate increases, however, is approximately \$58.4 million. The division must take proactive action to create an efficient and sustainable Medicaid program. This emergency amendment provides for the recalculation of nursing facility Medicaid per diem rates effective for

dates of service beginning April 1, 2005 to revise the rebase provisions to update the databank and to provide for a minimum utilization adjustment of eighty-five percent (85%) for the administration and capital cost components. These adjustments to calculation of nursing facility Medicaid per diem rates are necessary to ensure that payments for such nursing facility per diem rates are in line with the funds appropriated for that purpose. If the funds appropriated for the payment of medical assistance benefits at any time become insufficient to pay the full amount of the payment, no payment will be made through the Medicaid claims processing system. The Division of Medical Services is attempting to find a solution to this funding issue within the means that taxpayers, through the General Assembly, have given the division. There is one (1) HIV nursing facility currently enrolled in Missouri Medicaid. There is no change in its per day rate because its occupancy rate is currently over eighty-five percent (85%). The continued availability of payment for mandatory nursing facility services to approximately sixteen (16) people will ensure quality-nursing facility services continue to be provided to Medicaid patients in the HIV nursing facility. This emergency amendment, that reduces payments to some nursing facility providers with an occupancy of less than eighty-five percent (85%), will ensure continued payment at the end of State Fiscal Year 2005 for nursing facility services. This emergency amendment must be implemented on a timely basis to ensure that quality nursing facility services continue to be provided to Medicaid patients in nursing facilities at the end of State Fiscal Year 2005. As a result, the Division of Medical Services finds an immediate danger to public health, safety and/or welfare and a compelling governmental interest, which requires emergency action. The Missouri Medical Assistance program has a compelling government interest in providing continued cash flow for nursing facility services. The scope of this emergency amendment is limited to the circumstances creating the emergency and complies with the protections extended in the *Missouri and United States Constitutions*. The Division of Medical Services believes this emergency amendment is fair to all interested persons and parties under the circumstances. Interested persons and parties were informed by news release and on the Division of Medical Services website that comments regarding recalculation of HIV nursing facility Medicaid per diem rates would be accepted in writing until March 17, 2005. This emergency amendment was filed March 21, 2005, effective April 1, 2005, expires September 27, 2005.

(20) Rebasing of HIV Nursing Facility Rates.

(C) Effective for dates of service beginning April 1, 2005, the rebased rates for SFY 2005 shall be calculated as follows:

1. The audited 2001 cost report data shall continue to be used to develop the databank and to determine each nursing facility's rebased rate. The audited 2001 cost report data; the licensed beds data; and the bed equivalencies data used to determine each nursing facility's final rate paid for dates of services effective July 1, 2004 shall be deemed final. This finalized data will be used as the base to calculate the rates effective April 1, 2005. The following items have been revised for the April 1, 2005 rate calculation:

A. A new databank shall be developed using the audited 2001 cost report data set forth above in paragraph (20)(C)1. for nursing facilities enrolled in the Medicaid program as of March 15, 2005 in accordance with subsection (4)(S).

B. The administration and capital cost components shall be adjusted for minimum utilization at eighty-five percent (85%) occupancy, rather than as set forth in paragraphs (20)(A)6.-7.

AUTHORITY: sections 208.153 and 208.201, RSMo 2000. Original rule filed Aug. 1, 1995, effective March 30, 1996. For intervening history, please consult the Code of State Regulations. Emergency amendment filed March 21, 2005, effective April 1, 2005, expires Sept. 27, 2005. A proposed amendment covering this same material appears in this issue of the Missouri Register.

Under this heading will appear the text of proposed rules and changes. The notice of proposed rulemaking is required to contain an explanation of any new rule or any change in an existing rule and the reasons therefor. This is set out in the Purpose section with each rule. Also required is a citation to the legal authority to make rules. This appears following the text of the rule, after the word "Authority."

Entirely new rules are printed without any special symbolology under the heading of the proposed rule. If an existing rule is to be amended or rescinded, it will have a heading of proposed amendment or proposed rescission. Rules which are proposed to be amended will have new matter printed in boldface type and matter to be deleted placed in brackets.

An important function of the *Missouri Register* is to solicit and encourage public participation in the rulemaking process. The law provides that for every proposed rule, amendment or rescission there must be a notice that anyone may comment on the proposed action. This comment may take different forms.

If an agency is required by statute to hold a public hearing before making any new rules, then a Notice of Public Hearing will appear following the text of the rule. Hearing dates must be at least thirty (30) days after publication of the notice in the *Missouri Register*. If no hearing is planned or required, the agency must give a Notice to Submit Comments. This allows anyone to file statements in support of or in opposition to the proposed action with the agency within a specified time, no less than thirty (30) days after publication of the notice in the *Missouri Register*.

An agency may hold a public hearing on a rule even though not required by law to hold one. If an agency allows comments to be received following the hearing date, the close of comments date will be used as the beginning day in the ninety (90)-day-count necessary for the filing of the order of rulemaking.

If an agency decides to hold a public hearing after planning not to, it must withdraw the earlier notice and file a new notice of proposed rulemaking and schedule a hearing for a date not less than thirty (30) days from the date of publication of the new notice.

Proposed Amendment Text Reminder:

Boldface text indicates new matter.

[Bracketed text indicates matter being deleted.]

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT Division 60—State Board of Barber Examiners Chapter 1—General Rules

PROPOSED AMENDMENT

4 CSR 60-1.025 Fees. The board is proposing to add new language in subsections (1)(D) and (1)(E) and renumber the remaining subsections accordingly.

PURPOSE: This rule is being amended to establish the fees related to apprenticeship pursuant to Senate Bill 1122 passed by the 92nd General Assembly and became effective August 28, 2004.

(1) The following fees are established by the State Board of Barber Examiners and are payable in the form of a cashier's check, money order, or personal check:

(D) Apprentice Barber	
1. Registration	\$ 10.00
(E) Apprentice Supervisor	
1. Application Fee	\$ 75.00
[(D)](F) School	
1. Application Fee to Open a New School/College	\$500.00
2. Change of Location	\$500.00
3. Change of Ownership	\$300.00
4. Adding a Co-Owner	\$ 50.00
5. License Renewal	\$600.00
[(E)](G) Barbershop	
1. Certificate of Registration/License	\$ 50.00
2. Change of Location	\$ 50.00
3. Change of Ownership	\$ 50.00
4. Adding a Co-Owner	\$ 50.00
5. License Renewal	\$100.00
A. Penalty Fee after March 30	\$100.00
6. Delinquent Fee for Opening Shop Before Registering	\$100.00
7. Duplicate License	\$ 5.00
[(F)](H) Insufficient Funds Check	\$ [50.00]/\$25.00
[(G)](I) Name Search Fee	
(as determined by the Missouri State Highway Patrol)	

AUTHORITY: section 328.060.1, RSMo 2000 and 328.075.3 and 610.026, RSMo Supp. 2004. The material covered in this rule was previously filed as 4 CSR 60-4.010. Original rule filed Nov. 12, 1997, effective May 30, 1998. Amended: Filed Dec. 1, 2000, effective May 30, 2001. Amended: Filed Oct. 15, 2004, effective April 30, 2005. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

*NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Barber Examiners, Darla L. Fox, Executive Director, PO Box 1335, Jefferson City, MO 65102, by faxing (573) 751-8167 or via e-mail at: barber@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.*

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT Division 60—State Board of Barber Examiners Chapter 2—Licensure Requirements

PROPOSED AMENDMENT

4 CSR 60-2.015 Licensure by Examination for a Barber. The board is proposing to amend subsection (2)(A).

PURPOSE: This rule is being amended to include apprentice shops in the explanation of examination procedures pursuant to Senate Bill 1122 passed by the 92nd General Assembly and became effective August 28, 2004.

(2) Application for examination shall be made on the forms provided by the board. Applications may be obtained by writing or calling the board. The mailing address is: P[./O./] Box 1335, Jefferson City,

MO 65102 and the telephone number is (573) 751-0805. The TDD number is (800) 735-2966.

(A) Upon graduation from a Missouri school/college/apprentice shop an application for examination may be obtained [at] from the school/college/apprentice supervisor/or board office upon a satisfactory showing that training requirements are completed. Applicants that have currently graduated from an out-of-state accredited barber school/college/apprentice shop, and upon satisfactory showing that training requirements are completed, may obtain an application for examination from the board.

AUTHORITY: sections 328.080 and 328.110, RSMo [1994] Supp. 2004. Original rule filed Nov. 12, 1997, effective May 30, 1998. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Barber Examiners, Darla L. Fox, Executive Director, PO Box 1335, Jefferson City, MO 65102, by faxing (573) 751-8167 or via e-mail at: barber@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 60—State Board of Barber Examiners
Chapter 2—Licensure Requirements**

PROPOSED AMENDMENT

4 CSR 60-2.040 Barbershops. The board is adding sections (8) and (9).

PURPOSE: This rule is being amended to establish and explain the licensing procedures for apprentice barbershops pursuant to Senate Bill 1122 passed by the 92nd General Assembly and became effective August 28, 2004.

(8) Apprenticeship Program.

(A) Any licensed barber desiring to initiate a program of apprenticeship training in a licensed barber shop shall provide to the board the following information at the same time as the necessary application for the apprentice supervisor listed in subsection (9)(A):

1. The name and address of the licensed shop;
2. The floor plan of the shop.

(B) It shall be required for the licensed shop to be duly inspected and approved by the board or its authorized representative prior to commencement of apprentice training.

(C) Any shop advertising the services of an apprentice, in addition, shall provide notice, in print one-half (1/2) the size of the shop name, that the apprentice is a student of barbering.

(D) The licensed shop shall not hold itself out as a school and shall not train/supervise more than one (1) apprentice at a time. The licensed shop shall not accept any fee from the apprentice or any representative of the apprentice.

(E) Subjects of apprenticeship study shall conform to Column B in 4 CSR 60-3.015(1).

(F) The apprentice license shall be conspicuously posted at the appropriate station at all times and shall have a photograph attached which has been taken within the last two (2) years. The apprentice license is not transferable.

(9) Apprentice Supervisors.

(A) Any person desiring to practice as an apprentice supervisor shall have been licensed as a barber in Missouri for not less than two (2) years immediately prior to application as an apprentice supervisor. Said person shall provide to the board—

1. The name and address of the apprentice to be supervised;
2. The contract, if any, between the apprentice supervisor and the apprentice;
3. Apprentice supervisor application properly completed on a form supplied by the board;
4. Two (2) letters of character reference for the apprentice supervisor;
5. Proof of apprentice being at least seventeen (17) years of age;

6. Two (2) bust photographs measuring two inches square (2" × 2") taken within the last two (2) years;

7. An affidavit attesting that the apprentice supervisor shall be physically present at all times that his/her apprentice is receiving credited hours toward the required minimum for testing. For emergency purposes one (1) secondary licensed barber from the apprentice shop shall be named as acting apprentice supervisor. The acting supervisor shall not be responsible for more than a total of five percent (5%) or one hundred fifty (150) hours of supervision for a barber apprentice. The designation of an acting supervisor is limited to cases of sickness, vacation, or emergencies of the apprentice supervisor and any misuse of this privilege shall result in said supervisor's certificate revocation, and may be grounds for the board to seek discipline against the barber license and/or shop license; and

8. Application for a board-approved training session emphasizing teaching methodology. The session shall be eight (8) hours in length. Those apprentice supervisor applicants who currently are licensed instructors in the state of Missouri may forego the training session for becoming a supervisor.

(B) Upon the receipt by the board of all items required by subsection (9)(A), the board shall schedule the applicant for seminar training as an apprentice supervisor.

(C) Upon the successful completion of the seminar, the board shall issue the applicant a certificate as an apprentice supervisor. The apprentice supervisor certificate shall expire upon the apprentice's completion of training hours. The apprentice supervisor certificate is nontransferable and nonrenewable. The apprentice supervisor certificate shall be conspicuously displayed within the apprentice shop with a photograph taken within the last two (2) years.

(D) The apprentice supervisor shall not hold him/herself out as a school and shall not train/supervise more than one (1) apprentice at a time. The apprentice supervisor shall not accept any fee from the apprentice or any representative of the apprentice for instruction, rent, supplies, equipment or any other necessary tools for instruction.

(E) The apprentice supervisor must provide the following equipment: barber station, mannequin, current textbook on theory, barbering supplies and other equipment as deemed necessary and reasonable by the board.

(F) The apprentice supervisor shall submit quarterly reports by the tenth day of the following month for the apprentice in training on forms supplied by the board. Upon termination of training by the apprentice, the apprentice supervisor shall submit to the board within two (2) weeks a properly completed termination form supplied by the board. The form shall list the total number of training hours completed by the apprentice, allocated by subject area, the date the apprentice terminated training, and

shall be accompanied by the apprentice's license and any unused materials supplied by the board.

(G) The apprentice supervisor has thirty (30) days to begin training of apprentice subsequent to attending the board-approved training session.

(H) The board shall grant a waiver of the training session fee and completion of a board-approved training session provided—

1. Within the first six (6) months of the date of issuance of the apprentice supervisor certificate either party terminates the training; and

2. The apprentice supervisor reapplies to supervise a new apprentice within the same six (6) months.

AUTHORITY: sections 328.115.3 and 338.120, RSMo [1994] 2000 and 328.075.3, RSMo Supp. 2004. Original rule filed Nov. 12, 1997, effective May 30, 1998. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will cost public entities an estimated nine hundred seventy-seven dollars and sixty-three cents (\$977.63) during the first year of implementation of the rule and seven hundred thirty-three dollars and twenty-two cents (\$733.22) annually thereafter for the life of the rule. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

PRIVATE COST: This proposed amendment will cost private entities an estimated eight thousand five hundred seventy-four dollars (\$8,574) during the first year of implementation of the rule and six thousand four hundred thirty dollars and fifty cents (\$6,430.50) annually thereafter for the life of the rule. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Barber Examiners, Darla L. Fox, Executive Director, PO Box 1335, Jefferson City, MO 65102, by faxing (573) 751-8167 or via e-mail at: barber@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

PUBLIC ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 60 - State Board of Barber Examiners

Chapter 2 - Licensure Requirements

Proposed Amendment - 4 CSR 60-2.040 Barbershops

Prepared March 9, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Affected Agency or Political Subdivision	Estimated Annual Cost of Compliance
State Board of Barber Examiners	\$977.63
Total Annual Cost of Compliance for the Life of the Rule	\$977.63 during the first year of implementation of the rule and \$733.22 annually thereafter

III. WORKSHEET

1. CALCULATION OF EXPENSE AND EQUIPMENT AND PERSONAL SERVICE COSTS:

The board anticipates the staff will perform the following duties:

Licensure Technician II - Reviews application for completeness, updates division's licensing system, prepares and sends follow up letters, follows up with applicant for any additional information needed, responds to telephone inquiries, processes all documentation, prepares flow sheet for board review, and issues and mails the license.

Inspector - Conducts inspection of shop and approves the shop as meeting all the requirements for offering the apprenticeship and/or makes recommendations for meeting the requirements.

Salaries for the staff are shared with other boards within the division. The figures below represent the personal service costs supported by the State Board of Chiropractic Examiners.

Employee's salaries were calculated using their annual salary multiplied by 40.77% for fringe benefits and then were divided by 2080 hours per year to determine the hourly salary. The hourly salary was then divided by 60 minutes to determine the cost per minute. The cost per minute was then multiplied by the amount of time individual staff spent on the processing of applications. The total cost was based on the cost per application multiplied by the estimated number of applications.

STAFF	ANNUAL SALARY	SALARY TO INCLUDE FRINGE BENEFIT	HOURLY SALARY	COST PER MINUTE	TIME PER APPLICATION	COST PER APPLICATION	TOTAL COST
Licensing Technician I	\$22,620	\$31,842.17	\$15.31	\$0.26	15 minutes	\$3.83	\$57.41
Inspector I	\$26,808	\$37,737.62	\$18.14	\$0.30	90 minutes	\$27.21	\$408.22

Expense and Equipment and Personal Service Dollars

Application Printing	\$0.80
Letterhead Printing	\$0.15
Envelope for Mailing Application	\$0.16
Postage for Mailing Application	\$1.03
Printing of License	\$0.05
Postage for Mailing License	\$0.37
Total Per Applicant:	\$2.56

Total Expense and Equipment Costs: \$512.00

IV. ASSUMPTIONS

1. In the event inadequate information is submitted, it may be necessary for the board to review an application but it is not anticipated. Although 4 members of the board assist with the administration of the examination, no additional costs were calculated in this fiscal note as the number of examination administered annually will not increase.
2. The board anticipates 100 mentor applications and 100 apprentice applications will be received during the first year of implementation of the rule and thereafter 75 applicants will be received annually.
3. The total cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

NOTE: The public fiscal note for this rule only reflects the cost for this particular process. However, private entity fees are set at an amount to cover the total actual cost incurred by the board, which includes personal service, expense and equipment and transfers.

PRIVATE ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 60 - State Board of Barber Examiners

Chapter 2 - Licensure Requirements

Proposed Amendment - 4 CSR 60-2.040 Barbershops

Prepared March 9, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Estimate the number of entities by class which would likely be affected by the adoption of the proposed amendment:	Classification by type of the business entities which would likely be affected:	Estimated annual cost of compliance with the amendment by affected entities:
100	Licensee (Mentor Application Fee @ \$75)	\$7,500.00
100	Apprentice (enrollment fee @ \$10)	\$1,000.00
200	Applicants (postage @ \$.37)	\$74.00
Estimated Annual Cost of Compliance Life of the Rule		\$8,574.00 during the first year of implementation of the rule and \$6,430.50 annually thereafter

III. WORKSHEET

See table above.

IV. ASSUMPTION

1. The above figures are based on the legislative fiscal note filed with SB1122 (2004).
2. The board anticipates 100 mentor applications and 100 apprentice applications will be received during the first year of implementation of the rule and thereafter 75 applicants will be received annually.
3. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 60—State Board of Barber Examiners
Chapter 3—Curriculum Requirements for Barber
Schools/Colleges**

PROPOSED AMENDMENT

4 CSR 60-3.015 Rules and Curriculum Prescribed for Barber Schools/Colleges. The board is proposing to amend sections (1)–(9), (12), (17), (19) and (22)–(25).

PURPOSE: This rule is being amended to establish the curriculum and minimum training requirements for barber apprentices pursuant to Senate Bill 1122 passed by the 92nd General Assembly and became effective August 28, 2004.

(1) Missouri barber schools/colleges shall provide a minimum of one thousand (1,000) hours of training over a period of not less than six (6) months. *[Subjects and minimum hours in each include, but not be limited to, the following:]* **Apprenticeship training in Missouri shall provide a minimum of two thousand (2,000) hours of training for a period not to exceed five (5) years. The subjects and the minimum hours in each are listed in Columns A and B in this section.**

Subject	Column A	Column B
	Minimum Hours Student	Minimum Hours Apprentice
(A) History	5	10
(B) Professional Image	5	10
(C) Bacteriology	5	10
(D) Sterilization, Sanitation, and SafeWork Practices	20	40
(E) Implements, Tools, and Equipment	15	30
(F) Properties and Disorders of the Skin, Scalp, and Hair	15	30
(G) Treatment of Hair and Scalp	20	40
(H) Facial Massage and Treatments	5	10
(I) Shaving	35	70
(J) Haircutting	425	850
(K) Hairstyling	325	650
(L) Mustache and Beard Design	5	10
(M) Permanent Waving	30	60
(N) Chemical Hair Relaxing and Soft Curl Permanents	30	60
(O) Hair Coloring	30	60
(P) Hairpieces	5	10
(Q) Chemistry	5	10
(R) Anatomy and Physiology	5	10
(S) Salesmanship and Shop Management	5	10
(T) State Law	10	20

(2) All barber students **or barber apprentices** shall receive not less than one (1) hour of combined lectures and demonstrations each business day, excluding Saturday.

(3) A school/college **or apprentice shop** shall not allow any student under the age of *[sixteen (16)] seventeen (17) years [and six (6) months]* to enroll.

(4) It shall be the responsibility of the school/college/**or apprentice supervisor** to submit to the board at least fourteen (14) days prior to the anticipated date of student barber training the following:

(A) A completed student/**or apprentice** application for admission to barber training;

(C) Two (2) small photographs of student/**or apprentice**; and

(5) Upon board approval of a student **or apprentice** application for admission to barber training, the board shall issue to the school/college **or apprentice supervisor** a student **or apprentice** registration to be posted at each student's work station.

(6) Upon a successfully completed course of barber training, provided the board is in receipt of a completed student/**apprentice** transcript and student/**apprentice** registration, the student/**apprentice** may apply for the barber examination by submitting to the board at least fourteen (14) days prior to examination date, a completed application and applicable fee.

(7) Upon graduation from barber training, the student/**apprentice** registration to work under the supervision of a licensed barber operating in a current licensed barbershop may be extended by the board to ten (10) days following the date of the first available examination for licensure. Extended student/**apprentice** registration shall be posted in front of the working chair. Extended student/**apprentice** registration shall be received by the board upon its expiration.

(8) A school/college shall use a time clock to maintain an actual record of the exact number of hours worked each day by each student/**apprentice**.

(9) A school/college/**apprentice shop** shall maintain current transcripts and records of each student/**apprentice** enrolled, including the hours and dates of attendance and grades of all examinations.

(12) All work performed by the student **or apprentice** on a customer shall be inspected and approved by an instructor **or apprentice supervisor** before the customer exits the school/college/**apprentice shop**.

(17) All barbering implements and school **or shop** equipment, including furniture and fixtures, shall be kept in good working order and repair.

(19) **Schools/colleges** */E/emphasis* shall be placed on student training exclusively.

(22) The building and quarters the school/college/**apprentice shop** occupies shall be clean, well painted, well ventilated, adequately lighted with sufficient room.

(23) Open to Inspection. Every school/college/**apprentice shop** licensed by the board shall be open to inspection by members, representatives, or inspectors of the board during normal working hours or at reasonable times as requested by the board.

(24) All barber schools/colleges/**apprentice shops** shall be in compliance with 4 CSR 60-4.015 Sanitation Rules and shall post sanitation rules in a conspicuous place within school/college/**apprentice shop**.

(25) Failure of any school/college/**apprentice shop**, barber instructor, **apprentice supervisor**, or student/**apprentice** licensed by the board to comply with these rules and curriculum shall be considered grounds for suspension or revocation of a license to operate a barber school/college/**or apprentice shop** in this state.

AUTHORITY: sections 328.115, [and] 328.150 and 338.120, RSMo [1994] 2000 [and 328.120, RSMo Supp. 1997] and 328.080, RSMo Supp. 2004. The material covered in this rule was previously filed as 4 CSR 60-2.010. Original ruled filed Nov. 12, 1997, effective May 30, 1998. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Barber Examiners, Darla L. Fox, Executive Director, PO Box 1335, Jefferson City, MO 65102, by faxing (573) 751-8167 or via e-mail at: barber@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 70—State Board of Chiropractic Examiners
Chapter 2—General Rules**

PROPOSED RULE

4 CSR 70-2.032 Specialty Certification

PURPOSE: This rule outlines the requirements for applying to the board for recognition of a specialty to include documentation required and information reviewed by the board in determining whether a practice area is a specialty.

(1) Any person or entity may submit an application to the board seeking recognition of a specialty area as authorized by section 331.030.9, RSMo.

(A) For the purpose of this regulation a specialty shall consist of advanced education and/or training to be proficient in an area of practice and shall not include a technique of manipulation or treatment.

(2) An application for recognition of a specialty area shall be submitted on a form provided by the board and shall be accompanied by the required fee as defined in 4 CSR 70-2.090. Within the application the following information and documentation shall be submitted:

(A) Name and description of the specialty certification area;

(B) Conditions and/or disorders to which the specialty area is directed;

(C) Proof of acceptance of the specialty area by the chiropractic profession to include safety and efficacy of the specialty area.

1. For the purpose of this regulation the board will consider articles from scholarly journals, treatises, textbooks used by board-approved Council of Chiropractic Education (CCE) colleges of chiropractic, syllabi and/or curriculum materials used in education and training in the specialty area, and scholarly studies or research.

(D) Education and/or training requirements including how and where education may be obtained and whether education and/or training is provided from a postgraduate board-approved CCE chiropractic college.

(E) A statement describing why the specialty area does not exceed the scope of practice as defined in section 331.010, RSMo;

(F) Any examination or residency required; and

(G) Hours of continuing education to maintain the certification.

(3) The board shall review an application for recognition of a specialty area and require documentation to determine compliance with the following factors:

(A) Whether the certification is for a specialty area, or for a technique;

(B) Whether the specialty area is within the scope of practice of chiropractic as defined in section 331.010, RSMo;

(C) Whether the specialty area is safe for its intended purpose(s);

(D) Whether there are sufficient sources of accredited core and postgraduate education at board-approved CCE colleges of chiropractic; and

(E) Whether recognition of a specialty area will create potential public confusion in the event the specialty area is already being commonly utilized by licensees.

(4) The applicant shall be responsible for providing all documents requested by the board and the applicant shall have the burden of demonstrating that the specialty area should be recognized by the board. A final determination of whether an area will be recognized as a specialty is within the sole discretion of the board.

(5) Upon approval of a specialty area, the board shall promulgate a regulation establishing the minimum initial and continuing education requirements, application fee, and documentation required for verification of compliance with all educational requirements.

(6) Licensees receiving board-approved specialty certification shall be entitled to use the terms "specialty" or "specializing in" on advertisements, letterhead, and signage. Any such specialty designate shall be preceded by the licensee's name, and by one of the following:

(A) D.C.;

(B) Chiropractor;

(C) Doctor of Chiropractic; or

(D) Chiropractic Physician.

(7) Licensees shall be prohibited from using any term in any advertisement, letterhead, solicitation, or signage stating or suggesting that the licensee is certified in any specialty area, unless the board has approved the specialty area for certification and the licensee has met all requirements for certification thereunder.

AUTHORITY: section 331.030.9, RSMo Supp. 2004. Original rule filed April 1, 2005.

PUBLIC COST: This proposed rule will cost state agencies an estimated two hundred thirty-eight dollars and five cents (\$238.05) annually for the life of the rule. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

PRIVATE COST: This proposed rule will cost private entities an estimated seven hundred seventy-five dollars (\$775) annually for the life of the rule. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the State Board of Chiropractic Examiners, Loree Kessler, Executive Director, PO Box 672, Jefferson City, MO 65102 or via e-mail at chiropractic@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

PUBLIC ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 - Department of Economic Development

Division 70 - State Board of Chiropractic Examiners

Chapter 2 - General Rules

Proposed Rule - 4 CSR 70-2.032 Specialty Certification

Prepared February 9, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Affected Agency or Political Subdivision	Estimated Annual Cost of Compliance
State Board of Chiropractic Examiners	\$238.05
Total Annual Cost of Compliance for the Life of the Rule	
	\$238.05

III. WORKSHEET

1. CALCULATION OF EXPENSE AND EQUIPMENT AND PERSONAL SERVICE COSTS:

The board anticipates the staff will perform the following duties. The board estimates the following personal service and expense and equipment costs will be associated with specialty certification:

Executive Director - Reviews the completed application to ascertain adequate information for board review.

Executive I - Reviews the application, updates the division's licensing system, assembles supporting documentation for executive director review, and schedules the applicant for board review as advised by executive director.

Board Members - review applications to determine compliance with applicable laws and regulations regarding specialty certification. Board members receive \$50 per day per diem. Based on an 8 hour day work day, the board estimates each member of the board will spend approximate 1 hour per application to complete their review. Therefore, the board estimates that that each of the 6 board member will receive \$6.25 per hour x 5 applications = \$187.50

Expense and Equipment and Personal Service Dollars for Initial Applications - The board estimates it will spend \$5 per application for letterhead, postage, faxing, and telephone calls to applicants for their specialty certification recognition (\$5 x 5 application = \$25).

Salaries for the Executive Director and Executive I are shared with other boards within the division. The figures below represent the personal service costs supported by the State Board of Chiropractic Examiners.

Employee's salaries were calculated using their annual salary multiplied by 40.77% for fringe benefits and then were divided by 2080 hours per year to determine the hourly salary. The hourly salary was then divided by 60 minutes to determine the cost per minute. The cost per minute was then multiplied by the amount of time individual staff spent on the processing of applications. The total cost was based on the cost per application multiplied by the estimated number of applications.

STAFF	ANNUAL SALARY	SALARY TO INCLUDE FRINGE BENEFIT	HOURLY SALARY	TIME PER APPLICATION	COST PER APPLICATION	TOTAL COST
Executive Director	\$25,748	\$36,246.02	\$17.43	10 minutes	\$2.90	\$14.52
Executive I	\$13,032	\$18,345.15	\$8.82	15 minutes	\$2.20	\$11.02

Total Personal Service and Expense and Equipment Costs

Personal Service (including per diem) \$213.05

Expense and Equipment \$25.00

TOTAL \$238.05

IV. ASSUMPTIONS

1. The board has consulted with the 2 chiropractic colleges in the state regarding specialty certification most commonly pursued by chiropractic physicians in order to estimate the figures above.
2. The board does not anticipate any growth in the number of applications received each year.
3. The total cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

NOTE: The public fiscal note for this rule only reflects the cost for this particular process. However, private entity fees are set at an amount to cover the total actual cost incurred by the board, which includes personal service, expense and equipment and transfers.

PRIVATE ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 70 - State Board of Chiropractic Examiners

Chapter 2 - General Rules

Proposed Rule - 4 CSR 70-2.032 Specialty Certification

Prepared February 9, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Estimate the number of entities by class which would likely be affected by the adoption of the proposed amendment:	Classification by type of the business entities which would likely be affected:	Estimated annual cost of compliance with the amendment by affected entities:
5	Applicants (application fee @ \$150)	\$750
5	Applicants (postage and copying fees @ \$5)	\$25
Estimated Annual Cost of Compliance for the Life of the Rule		\$775

III. WORKSHEET

See table above.

IV. ASSUMPTION

1. The board has consulted with the 2 chiropractic colleges in the state regarding specialty certification most commonly pursued by chiropractic physicians.
2. The board does not anticipate any growth in the number of applications received each year.
3. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 70—State Board of Chiropractic Examiners
Chapter 2—General Rules**

*PO Box 672, Jefferson City, MO 65102 or via e-mail at chiropractic@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.*

PROPOSED AMENDMENT

4 CSR 70-2.040 Application for Licensure. The board proposes to amend section (2) and add new language in sections (6) through (8).

PURPOSE: This rule states where to secure an application and how to complete the application and documentation required to accompany the application form provided by the executive director.

(2) Application forms may be obtained by writing the board at 3605 Missouri Boulevard, PO Box 672, Jefferson City, MO 65102-0672, contacting the board office at (573) 751-2104, or sending an e-mail request for an application packet to [\[chiro@mail.state.mo.us\]](mailto:chiro@mail.state.mo.us) chiropractic@pr.mo.gov.

(6) An application for temporary licensure may be obtained by writing to the State Board of Chiropractic Examiners, PO Box 672, 3605 Missouri Boulevard, Jefferson City, MO, 65102-0672, contacting the board office at (573) 751-2104, or sending an e-mail request for an application for temporary licensure to chiropractic@pr.mo.gov.

(7) The applicant for temporary licensure shall submit the following along with the required form and fee as defined in 4 CSR 70-2.090(1)(T):

(A) An original, unretouched, black and white or color photograph of the applicant taken within the last six (6) months, showing the head and shoulders front view, not to exceed two inches by two inches (2" × 2");

(B) A composite score of seventy-five percent (75%) on the jurisprudence examination regarding Missouri statutes and regulations;

(C) Two (2) sets of fingerprints and fingerprint fee as defined in 4 CSR 70-2.090(1)(O); and

(D) Satisfactory evidence that the applicant is licensed in another state to practice chiropractic.

(8) An applicant may request a temporary license be renewed for an additional ninety (90) days upon application to the board and payment of the required fee as defined in 4 CSR 70-2.090(1)(U).

AUTHORITY: sections 43.543 and 331.030, RSMo Supp. 2004 and 331.100.2, RSMo 2000. This version of rule filed Dec. 17, 1975, effective Dec. 27, 1975. For intervening history, please consult the Code of State Regulations. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will cost state agencies an estimated eighteen dollars and twenty-nine cents (\$18.29) annually for the life of the rule. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

PRIVATE COST: This proposed amendment will cost private entities an estimated one hundred seventy-four dollars and fifty cents (\$174.50) annually for the life of the rule. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the State Board of Chiropractic Examiners, Loree Kessler, Executive Director,

PUBLIC ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 70 - State Board of Chiropractic Examiners

Chapter 2 - General Rules

Proposed Amendment - 4 CSR 70-2.040 Application for Licensure

Prepared February 9, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Affected Agency or Political Subdivision	Estimated Annual Cost of Compliance
State Board of Chiropractic Examiners	\$18.29
Total Annual Cost of Compliance for the Life of the Rule	
	\$18.29

III. WORKSHEET

1. CALCULATION OF EXPENSE AND EQUIPMENT AND PERSONAL SERVICE COSTS:

The board anticipates the staff will perform the following duties:

Executive Director - Reviews the completed application to determine compliance with licensure requirements.

Executive I - Reviews the application, updates the division's licensing system, assembles supporting documentation for executive director review, advise applicant of information required, and issues and mails license.

Salaries for the Executive Director and Executive I are shared with other boards within the division. The figures below represent the personal service costs supported by the State Board of Chiropractic Examiners.

Employee's salaries were calculated using their annual salary multiplied by 40.77% for fringe benefits and then were divided by 2080 hours per year to determine the hourly salary. The hourly salary was then divided by 60 minutes to determine the cost per minute. The cost per minute was then multiplied by the amount of time individual staff spent on the processing of applications. The total cost was based on the cost per application multiplied by the estimated number of applications.

STAFF	ANNUAL SALARY	SALARY TO INCLUDE FRINGE BENEFIT	HOURLY SALARY	TIME PER APPLICATION	COST PER APPLICATION	TOTAL COST
Executive Director	\$25,748	\$36,246.02	\$17.43	5 minutes	\$1.45	\$7.26
Executive I	\$13,032	\$18,345.15	\$8.82	15 minutes	\$2.20	\$11.02

IV. ASSUMPTIONS

1. In the event inadequate information is submitted, it may be necessary for the board to review an application but it is not anticipated.
2. The board does not anticipate any growth in the number of applications received each year.
3. The total cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

NOTE: The public fiscal note for this rule only reflects the cost for this particular process. However, private entity fees are set at an amount to cover the total actual cost incurred by the board, which includes personal service, expense and equipment and transfers.

PRIVATE ENTITY FISCAL NOTE**I. RULE NUMBER****Title 4 -Department of Economic Development****Division 70 - State Board of Chiropractic Examiners****Chapter 2 - General Rules****Proposed Amendment - 4 CSR 70-2.040 Application for Licensure**

Prepared February 9, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Estimate the number of entities by class which would likely be affected by the adoption of the proposed amendment:	Classification by type of the business entities which would likely be affected:	Estimated annual cost of compliance with the amendment by affected entities:
1	Applicants (application fee @ \$100)	\$100.00
1	Licensee/Temporary License (renewal fee @ \$25)	\$25.00
1	Applicant (transcript @ \$7.50)	\$7.50
1	Applicant (fingerprinting fee @ \$37)	\$37.00
1	Applicants (postage and copying fees @ \$5)	\$5.00
Estimated Annual Cost of Compliance for the Life of the Rule		\$174.50

III. WORKSHEET

See table above.

IV. ASSUMPTION

1. The board does not anticipate any growth in the number of applications received each year.
2. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 70—State Board of Chiropractic Examiners
Chapter 2—General Rules**

PROPOSED AMENDMENT

4 CSR 70-2.060 Professional Conduct Rules. The board is proposing to amend section (1) and subsection (6)(E).

PURPOSE: This rule explains the professional conduct of licensed chiropractic physicians.

(1) Each licensed chiropractic physician shall notify the board of his/her business and residential address and telephone number(s) and immediately shall inform the board of any change of address or telephone number within fifteen (15) days of such change. Notification shall be sent to the board at 3605 Missouri Boulevard, or PO Box 672, Jefferson City, MO 65102-0672, contacting the board office at (573) 751-2104, or sending an e-mail to [chiro@mail.state.mo.us] chiropractic@pr.mo.gov.

(6) Advertisement or Solicitation.

(E) An advertisement or solicitation, as defined in this rule, shall not be false, misleading or deceptive to the general public or persons to whom the advertisement or solicitation is primarily directed. False, misleading and/or deceptive shall include, but not be limited to, the following contents or omissions:

1. Any untrue statement;
2. Any matter, or presentation or arrangement of any matter, in a manner or format which is false, misleading or deceptive to the public;
3. Omission of any fact which under the circumstances makes the statement false, misleading or deceptive to the public;
4. Transmission in a manner which involves coercion, intimidation, threats or harassing conduct;
5. An attempt to attract patronage in a manner which castigates, impugns, disparages, discredits or attacks other healing arts and sciences or other chiropractic physicians;
6. Any self-laudatory statements; or
7. Transmission to a person who has made known to the licensee a desire not to receive communication from the licensee; or

[8. A statement or implication that a licensee is a specialist, unless the advertisement contains a notice that neither Missouri nor the Missouri State Board of Chiropractic Examiners reviews or approves certifying organizations or specialist designations for chiropractic physicians.]

AUTHORITY: sections 331.060 and 331.100.2, RSMo 2000. This version of rule filed Dec. 17, 1975, effective Dec. 27, 1975. For intervening history, please consult the Code of State Regulations. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the State Board of Chiropractic Examiners, Loree Kessler, Executive Director, PO Box 672, Jefferson City, MO 65102 or via e-mail at chiropractic@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 70—State Board of Chiropractic Examiners
Chapter 2—General Rules**

PROPOSED AMENDMENT

4 CSR 70-2.070 Reciprocity. The board is amending sections (3) and (6).

PURPOSE: This rule states the requirements and procedures for obtaining a license by reciprocity.

(3) Application forms may be obtained by writing the board at 3605 Missouri Boulevard, or PO Box 672, Jefferson City, MO 65102-0672, calling the board at (573) 751-2104 or sending an e-mail to [chiro@mail.state.mo.us] chiropractic@pr.mo.gov.

(6) When applicant is seeking Missouri licensure by reciprocity and [the state from which applicant is seeking to reciprocate does not allow equivalent reciprocal licensing of Missouri licensees, or if] that state's requirements for securing a chiropractic license are not equivalent to the requirements of this state for licensure, the board may, in its discretion, require the applicant to successfully complete the Special Purposes Examination for Chiropractic (SPEC) administered by the National Board of Chiropractic Examiners.

AUTHORITY: sections 331.030 and 331.100.2, RSMo 2000. This version of rule filed Dec. 17, 1975, effective Dec. 27, 1975. For intervening history, please consult the Code of State Regulations. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the State Board of Chiropractic Examiners, Loree Kessler, Executive Director, PO Box 672, Jefferson City, MO 65102 or via e-mail at chiropractic@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 70—State Board of Chiropractic Examiners
Chapter 2—General Rules**

PROPOSED AMENDMENT

4 CSR 70-2.080 Biennial License Renewal. The board is proposing to add new language in subsection (4)(A), renumber the remaining subsections accordingly, add new language in sections (5)–(9), amend the previous section (13), delete section (14), add new language in sections (22) and (23) and renumber the remaining sections accordingly.

PURPOSE: This rule clarifies license renewal requirements.

(4) At least twelve (12) of the twenty-four (24) C.E. credits required must be credit hours earned by attending formal continuing education programs which meet the requirements of 4 CSR 70-2.081(1). The

twelve (12) C.E. credits earned by attending formal continuing education programs shall be four (4) hours credit in diagnostic imaging; four (4) hours in differential or physical diagnosis, or both; and four (4) hours in boundary training, emergency procedures, Human Immunodeficiency Virus (HIV) or infectious diseases. No more than twelve (12) C.E. credits can be earned during each reporting period through other continuing education experiences, and nothing herein shall be construed to require that licensees obtain any portion of their C.E. credits through such other continuing education experiences. Other continuing education experiences shall be categorized as general studies unless approved by the board and meets the requirements of section 331.050.1, RSMo and board rule 4 CSR 70-2.081(2). The board defines other continuing education experiences as follows:

(A) For the purpose of this regulation one (1) hour of continuing education shall consist of at least fifty (50) minutes of instruction or study;

/(A)/(B) Meetings. Registered attendance at relevant professional meetings which include, but are not limited to, national, regional, state and local professional association meetings and open meetings of the State Board of Chiropractic Examiners. To earn C.E. credits in this category, roll call must be taken and recorded in the official minutes of the meeting. A maximum of six (6) C.E. credit hours are allowable in this category during each continuing education reporting period but no more than two (2) C.E. credits shall be earned per meeting. If the meeting is less than two (2) hours in duration, C.E. credits will be granted for actual attendance time but in increments of not less than one (1) hour. If the meeting has a duration of ninety (90) minutes, C.E. credits may be granted for one and one-half (1.5) hours;

/(B)/(C) Publications. Books and/or articles published by licensee in professional books, national or international journals, or periodicals. A maximum of six (6) C.E. credits are allowable in this category during each continuing education reporting period. Publications must be relevant to chiropractic to qualify for C.E. credits under this rule;

/(C)/(D) Presentations. Chiropractic physicians teaching an approved postgraduate course may receive C.E. credits for teaching the course providing the instructor's name was submitted with the course content when requesting approval of the course;

/(D)/(E) Home Study. Self-study of professional material including relevant books, journals, periodicals, videos, tapes, and other materials and preparation of relevant lectures and talks to public groups. C.E. credits will be granted at the rate of one (1) hour for reading a national or international journal or periodical and four (4) hours for reading a book. To qualify for C.E. credits under this category, the journal, periodical or book must be related to the clinical practice of chiropractic; and

/(E)/(F) Individual Study. Relevant chiropractic courses subscribed via the Internet or by other electronic means.

(5) Chiropractic physicians who are faculty members at a Council on Chiropractic Education (CCE)-accredited college may receive up to a maximum of twenty-four (24) hours per year of continuing education credit for teaching or attending course(s) at a CCE-accredited chiropractic college.

(A) The areas of study shall be in compliance with 4 CSR 70-2.080(2).

(B) For the purpose of this regulation, the faculty member must either teach or attend a course at a CCE-approved chiropractic college for a minimum of four (4) clock hours as defined in 4 CSR 2.080(4)(A).

(C) The twelve (12) hours of general continuing education study may be obtained by teaching or attending course(s) relevant to chiropractic provided by a CCE-approved chiropractic college.

(D) The chiropractic college shall be responsible for submitting course(s) to the board for approval and for verifying attendance by the teacher or faculty member.

(6) Chiropractic physicians who teach continuing education approved by the board may receive up to a maximum of four (4) hours per year of continuing education credit for teaching courses in diagnostic imaging, differential or physical diagnosis or both, emergency procedures, boundary training, Human Immunodeficiency Virus (HIV), or infectious diseases.

(7) Chiropractic physicians who teach continuing education approved by the board may receive up to a maximum of twelve (12) hours per year of continuing education credit for teaching courses in general subjects.

(8) Chiropractic physicians certified by the board in meridian therapy/acupressure/acupuncture (MTAA) or insurance consulting who teach continuing education approved by the board may receive up to twelve (12) hours per year of continuing education for teaching courses pursuant to 4 CSR 70-2.031(3) MTAA or 4 CSR 70-4.030(2) insurance consulting.

(9) For the purpose of this regulation the teacher or instructor must teach a minimum of four (4) clock hours as defined in 4 CSR 70-2.080(4)(A).

/(5)/(10) A renewal license will not be issued until all renewal requirements have been met. If the licensee pays the continuing education penalty fee for C.E. credits earned late, those hours shall not be applied to the next reporting cycle. A licensee who has failed to obtain and verify, in a timely fashion, the requisite number of C.E. credits shall not engage in the practice of chiropractic unless an extension is obtained pursuant to section **/(8)/(13)** of this rule.

/(6)/(11) For the license renewal the licensee shall verify the number of C.E. credits earned during the last two (2) immediately preceding continuing education reporting periods on the renewal form provided by the board. The renewal form shall be mailed directly to the board office on or before the expiration date of the license. The licensee shall not submit the actual record of C.E. attendance to the board except in the case of a board audit.

/(7)/(12) Each licensee shall maintain full and complete records of all C.E. credits earned for the two (2) previous reporting periods in addition to the current reporting period. Formal C.E. credit hours shall be documented by the sponsor of the approved continuing education program and provided to the licensee within thirty (30) days from the date of the program. The licensee is responsible for maintaining that record of attendance as set forth in 4 CSR 70-2.081(6). C.E. credits earned through other continuing education experiences shall be documented by the licensee and such documentation shall contain, at a minimum, the number of hours earned and these hours shall be separated in the various categories defined in section (4) of this rule. The board may conduct an audit of licensees to verify compliance with the continuing education requirement. Licensees shall assist the board in its audit by providing timely and complete responses to the board's inquiries. A response is considered timely if received in the board office within thirty (30) days of a written request by the board for such information.

/(8)/(13) A licensee who cannot complete the requisite number of C.E. credits because of personal illness, military service or other circumstances beyond the licensee's control which the board deems to be sufficient to impose an insurmountable hardship may apply for an extension of time to complete the continuing education requirements. Any extension of time to complete the continuing education requirements will be granted solely in the discretion of the board. The licensee must make a written application for extension of time prior to the December 31 deadline for completion of the continuing education requirement. The licensee shall provide full and complete written documentation of the grounds supporting the reasons for

which an extension is sought. A licensee who requests an extension of time to complete the requisite hours of continuing education shall not engage in the active practice of chiropractic until the board grants the licensee's request for extension and the licensee receives express written authorization to do so.

[(9)](14) The board shall not grant C.E. credit to any licensee for attending a continuing education course if the licensee attended a subsequent course on the same subject matter during the same continuing education reporting period.

[(10)](15) Chiropractic physicians holding a Missouri license, but not practicing in Missouri, may use the approved continuing education hours required of the state in which they practice for license renewal, without prior approval, provided that the continuing education requirement is met and provided that the continuing education falls within the definition set forth in 4 CSR 70-2.081. If the state in which the chiropractic physician is practicing does not have continuing education requirements for renewal or relicensure, the out-of-state chiropractic physician must earn the requisite number of continuing education hours required in Missouri and the hours shall be approved by the Missouri board or offered by a college of chiropractic accredited by the Council on Chiropractic Education (CCE).

[(11)](16) Retired and Totally Disabled Licensees.

(A) Doctors of chiropractic who are age sixty-two (62) or older or who are totally disabled, as certified by their attending physician, on the renewal date and who have retired from the active practice of chiropractic and are not practicing chiropractic or engaging in activity which constitutes the practice of chiropractic, may apply to the board for waiver of the continuing education requirements and renewal of their licenses at a reduced fee. The application must be made on the form provided by the board and must be accompanied by the affidavit(s), also provided by the board.

(B) Any renewal certificate or license issued by the board in accordance with this rule will be stamped with the words "RETIRED. NOT VALID FOR ACTIVE PRACTICE."

(C) Any licensee who receives a renewal certificate or license in accordance with this rule who then desires to practice chiropractic or engage in activity which constitutes the practice of chiropractic must submit evidence of having earned the requisite number of C.E. credits approved by the board during the twelve (12) months immediately preceding the request for an active license. Provided, however, that any licensee whose license has not been active for three (3) or more years must return to an accredited chiropractic college for a semester of additional study and pass a practical examination approved by the board.

(D) When a licensee whose license has been placed on retired or total disability status desires to obtain an active license and has already paid the reduced fee for the license renewal, the licensee will be required to pay the difference between the reduced fee and the renewal fee to have an active license until the next renewal period.

[(12)](17) In order for the board to consider waiving the continuing education requirement for license renewal, all requests for waivers due to illness must be accompanied by a written statement from a practitioner of the healing arts stating the diagnosis, prognosis and length of time the chiropractic physician will be unable to practice or attend an educational program. Waivers due to illness may be granted only to a licensee who has suffered a personal illness or personal disability of a nature as to prevent him/her from engaging in the active practice of chiropractic for at least the majority of the continuing education reporting period.

[(13)](18) Reactivations of License/s of Missouri Residents].

(A) An application for license renewal, received *[from a Missouri resident]* in the board office less than *[three (3)] five (5)* years after the renewal deadline, will be reactivated upon payment of

the reactivation and renewal fees, a statement of why s/he failed to renew his/her license and proof of having met the continuing education requirements during the preceding twelve (12)-month period.

(B) An application for license renewal *[from a Missouri resident]* received in the board office more than *[three (3)] five (5)* years after the renewal deadline *[will]* **may** be reactivated after the applicant has **verified that s/he** returned to an accredited chiropractic college for a semester of additional study in the clinical subjects, passed a practical examination *[approved by the board,]* **administered by the chiropractic college, provide proof s/he has been actively and lawfully practicing chiropractic in another state for the five (5) years immediately preceding the application for reactivation** and upon the payment of the reactivation and renewal fees.

(C) When a chiropractic physician applies to reinstate a license that has been expired for at least five (5) years, and s/he has not actively practiced in another state for the five (5) years preceding the application for reactivation the chiropractic physician must return to a Council on Chiropractic Education (CCE)-accredited chiropractic college for a course of study. A course of study for reactivation of a license shall consist of passing a minimum of twelve (12) semester hours as follows:

1. Four (4) semester hours in chiropractic clinical reasoning;
2. Three (3) semester hours clinical diagnosis; and
3. Five (5) semester hours diagnostic imaging.

(D) The applicant for reinstatement shall document completion of the required course of study with an official transcript from the chiropractic college.

[(14)] Reactivations of Licenses of Nonresidents.

(A) An application for license renewal received from a non-resident in the board office less than three (3) years after the renewal deadline will be reactivated upon the payment of the reactivation and renewal fees, a statement of why s/he failed to renew his/her license and proof of having met the continuing education requirements during the preceding twelve (12)-month period.

(B) An application for license renewal received from a non-resident in the board office more than three (3) years after the renewal deadline will be reactivated only after the applicant proves that s/he has been actively and lawfully practicing chiropractic and holding him/herself out to the public as a chiropractor in another state for the three (3) years immediately preceding his/her application for reactivation and upon payment of the reactivation and renewal fees.

(C) An application for license renewal from a nonresident chiropractic physician received in the board office more than three (3) years after the renewal deadline and the chiropractic physician has not been in practice in another state will be reactivated after the applicant has returned to an accredited chiropractic college for a semester of additional study in the clinical subjects, passed a practical examination approved by the board and paid the reactivation and renewal fees.]

[(15)](19) Deadline for Renewal.

(A) Applications for renewal shall be postmarked by the expiration date of the license.

[(16)] (20) All licensees who have received their licenses by reciprocity must complete the required hours of continuing education prior to the first renewal date following the granting of their license by reciprocity.

[(17)] (21) Chiropractic physicians acting as associate examiners for either the state board practical examination or the regional/national practical examination (Part IV) administered by the National Board of Chiropractic Examiners (N.B.C.E.) may receive up to a maximum of twenty-four (24) hours per year of continuing education credit for the administration of the examination.

(A) For the first full day of service provided to the N.B.C.E. in administering the Part IV examination, associate examiners will be credited with four (4) hours of continuing education in differential or physical diagnosis and four (4) hours of credit in general chiropractic continuing education.

(B) For the second full day of service provided to the N.B.C.E. in administering the Part IV examination, associate examiners will be credited with eight (8) hours of general chiropractic continuing education.

(C) If a chiropractic physician should provide less than four (4) hours of service to the N.B.C.E. in any one administration of the Part IV examination, continuing education credit will not be available to that licensee. C.E. credits earned from administering the Part IV examination shall be in the formal continuing education category.

(D) If the associate examiner attends the examiner orientation as part of the N.B.C.E. examination administration the associate examiner is eligible for two (2) hours of continuing education in boundary training for each full day the associate examiner participates in the N.B.C.E. administration.

(E) If the associate examiner proctors the X-ray portion of the N.B.C.E. the associate examiner is eligible for one (1) hour of continuing education in X-ray for each examination session. The associate examiner shall be eligible for up to four (4) hours of continuing education credit in X-ray for proctoring the X-ray portion of the examination the entire day.

(22) A licensee may submit an application to the board to be classified as inactive. An inactive licensee shall be defined as a chiropractic physician formally licensed by the board that has been approved for inactive status and is not engaged in the practice of chiropractic as defined in 331.010, RSMo.

(23) In order for a chiropractic physician to reactivate an inactive license, the former licensee shall submit the following to the board office:

(A) An application for reactivation of the license;

(B) Documentation verifying completion of the required continuing education for the year preceding the application for reinstatement pursuant to 4 CSR 70-2.020(2); and

(C) Reactivation fee.

[(18)](24) If a bad check is received by the board to renew a license and if the replacement fee is not received prior to the expiration date of the license, the license will be not current and the licensee shall not practice until the reactivation form and fee have been submitted to the board.

[(19)](25) Violation of any provision of this rule shall be deemed by the board to constitute misconduct, fraud, misrepresentation, dishonesty, unethical conduct or unprofessional conduct in the performance of the functions or duties of a chiropractic physician depending on the licensee's conduct. In addition, a licensee who has failed to complete and report in a timely fashion the requisite hours of continuing education and engages in the active practice of chiropractic without the express written authority of the board shall be deemed to have engaged in the unauthorized practice of chiropractic.

AUTHORITY: sections 331.050, RSMo Supp. [2003] 2004 and 331.100.2, RSMo 2000. This version of rule filed Dec. 17, 1975, effective Dec. 27, 1975. For intervening history, please consult the *Code of State Regulations*. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will cost state agencies an estimated three hundred forty-seven dollars and eighteen cents (\$347.18) annually for the life of the rule. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

PRIVATE COST: This proposed amendment will cost private entities an estimated three thousand four hundred seventy-seven dollars and fifty cents (\$3,477.50) annually for the life of the rule. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the State Board of Chiropractic Examiners, Loree Kessler, Executive Director, PO Box 672, Jefferson City, MO 65102 or via e-mail at chiropractic@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

PUBLIC ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 70 - State Board of Chiropractic Examiners

Chapter 2 - General Rules

Proposed Amendment - 4 CSR 70-2.080 Biennial License Renewal

Prepared February 9, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Affected Agency or Political Subdivision	Estimated Annual Cost of Compliance
State Board of Chiropractic Examiners	\$347.18
Total Annual Cost of Compliance for the Life of the Rule	
	\$347.18

III. WORKSHEET

1. CALCULATION OF EXPENSE AND EQUIPMENT AND PERSONAL SERVICE COSTS:

Salaries for the Executive Director, Executive I and Licensing Technician I are shared with other boards within the division. The figures below represent the personal service costs supported by the State Board of Chiropractic Examiners.

Employee's salaries were calculated using their annual salary multiplied by 40.77% for fringe benefits and then were divided by 2080 hours per year to determine the hourly salary. The hourly salary was then divided by 60 minutes to determine the cost per minute. The cost per minute was then multiplied by the amount of time individual staff spent on the processing of applications. The total cost was based on the cost per application multiplied by the estimated number of applications.

The board anticipates the staff will perform the following duties:

Approval of Continuing Education

Chiropractic colleges that provide continuing education seminars currently submit an application for courses or seminars offered to licensees to meet licensure renewal requirements. Therefore, the board anticipates any cost for correspondence, follow up and communication would already be a part of this initial application. The allocation of staff time is based upon the additional courses and instructors that would be submitted for approval by the colleges. Continuing education seminars and instructors that are not offered by chiropractic colleges are already approved by the board resulting in no additional review by the staff or board.

Licensing Technician I - Receives continuing education application, enters the request into a database and prepares mailing for continuing education review by the board members. The board estimates that Licensing Technician I will spend approximately .05% of time processing continuing education applications. (.05% X 2080 hours = 1.04 hours)

Executive I - Reviews all documentation submitted to determine if any additional information is needed, records board members recommendations and send letters to continuing education sponsor/provider regarding results of board review. The board estimates that Executive I will spend approximately .1% of time processing continuing education applications. (.1% X 2080 hours = 2.08 hours)

STAFF	ANNUAL SALARY	SALARY TO INCLUDE FRINGE BENEFIT	HOURLY SALARY	TIME PER APPLICATION	TOTAL COST
Executive I	\$13,032	\$18,345.15	\$8.82	3 hours 20 minutes	\$18.35
Licensing Technician I	\$3,986	\$5,611.66	\$2.70	1 hour 40 minutes	\$2.81

The board will review the additional courses and faculty submitted by the chiropractic college. It is estimated that 10 new courses and instructors will require a total of 8 hours review time for a total cost of \$50 x 6 members = \$300 if all continuing applications submitted for approval of course content and instructor were reviewed by all board members.

Total: \$321.15

Inactive Status

Any current licensee would be eligible for inactive status and would advise the board either prior to a biennial renewal application being sent or during the biennial renewal. Instead of processing a licensee's renewal, the board staff would be processing a request of inactive status so there is additional work for the division's central mail processing unit or for mailing because no license is issued.

Executive I - Answers telephone inquires, reviews all documentation submitted to determine if any additional information is needed for executive director review and process request for inactive status upon executive director approval. The board estimates that Executive I will spend approximately .1% of time processing continuing education applications. (.05% X 2080 hours = 1.04 hours)

Executive Director - Reviews application for inactive status. The board estimates that Executive I will spend approximately .05% of time processing continuing education applications. (.05% X 2080 hours = 1.04 hours)

STAFF	ANNUAL SALARY	SALARY TO INCLUDE FRINGE BENEFIT	HOURLY SALARY	TIME PER APPLICATION	TOTAL COST
Executive Director	\$23,952	\$33,717.23	\$16.21	1.04 hours	\$16.86
Executive I	\$13,032	\$18,345.15	\$8.82	1.04 hours	\$9.17

Total: \$26.03

1. In the event inadequate information is submitted, it may be necessary for the board to review an application but it is not anticipated.
2. The board does not anticipate any growth in the number of applications received each year.
3. The total cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

NOTE: The public fiscal note for this rule only reflects the cost for this particular process. However, private entity fees are set at an amount to cover the total actual cost incurred by the board, which includes personal service, expense and equipment and transfers.

PRIVATE ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 70 - State Board of Chiropractic Examiners

Chapter 2 - General Rules

Proposed Amendment - 4 CSR 70-2.080 Biennial License Renewal

Prepared February 9, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Estimate the number of entities by class which would likely be affected by the adoption of the proposed amendment:	Classification by type of the business entities which would likely be affected:	Estimated biennial cost of compliance with the amendment by affected entities:
5	Chiropractic Colleges (\$5 per course)	\$25.00
1	Licensee/Reinstatement (continuing education course @ \$3200)	\$3,200.00
1	License/Reinstatement (transcript @ \$7.50)	\$7.50
1	Licensee/Reinstatement (reinstatement application fee @ \$240)	\$240.00
1	Licensee/Reinstatement (postage and copying fees @ \$5)	\$5.00
Estimated biennial Cost of Compliance for the Life of the Rule		\$3,477.50

III. WORKSHEET

See table above.

IV. ASSUMPTION

1. The board has consulted with the 2 chiropractic colleges in the state regarding specialty certification most commonly pursued by chiropractic physicians in order to estimate the figures above.
2. There are 5 categories of didactic hours of continuing education required; X-ray, differential/physical diagnosis, boundary training, HIV, and emergency procedures. Two chiropractic colleges are located in this state and it anticipated the colleges will submit at least 5 courses and 5 professors that teach these areas for review by the board for continuing education compliance.
3. Based on previous inquiries of the board, it is estimated that 100 licensees will request inactive status. It is anticipated that the request for inactive status will reduce the number of licenses renewed. Therefore, the cost of notifying the board would be equivalent to the cost of returning the renewal notice. Therefore, no additional cost incurred by the licensee to request an inactive status.
4. The board does not anticipate any growth in the numbers of entities effected.
5. It is anticipated that the total cost will recur biennially for the life of the rule, may vary with inflation and is expected to increase biennially at the rate projected by the Legislative Oversight Committee.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 70—State Board of Chiropractic Examiners
Chapter 2—General Rules**

PROPOSED AMENDMENT

4 CSR 70-2.090 Fees. The board is proposing to add new language in subsections (1)(T) through (1)(W).

PURPOSE: This amendment establishes and fixes the various fees and charges authorized by Chapter 331, RSMo.

(1) The following fees hereby are established by the State Board of Chiropractic Examiners:

(T) Temporary License Fee	\$100.00
(U) Renewal Temporary License	\$ 25.00
(V) Specialty Certification Review Fee	\$150.00
(W) Specialist Certification Application Fee	\$100.00

AUTHORITY: sections 43.543, 331.070 and 331.100.2, RSMo 2000. Emergency rule filed June 30, 1981, effective July 9, 1981, expired Nov. 11, 1981. Original rule filed June 30, 1981, effective Oct. 12, 1981. For intervening history, please consult the *Code of State Regulations*. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the State Board of Chiropractic Examiners, Loree Kessler, Executive Director, PO Box 672, Jefferson City, MO 65102 or via e-mail at chiropractic@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 70—State Board of Chiropractic Examiners
Chapter 3—Preceptorship**

PROPOSED AMENDMENT

4 CSR 70-3.010 Preceptorship. The board is amending sections (1) through (6).

PURPOSE: This amendment allows preceptorship programs by approved chiropractic colleges and explains the allowable activities by interns.

(1) [Definitions.] For the purpose of this chapter, the following definitions shall apply:

(A) [Authorized chiropractic college is a board-approved chiropractic college authorized to engage in preceptorship programs under these rules.] “Chiropractic college” means a school having accredited status with the Council on Chiropractic Education (CCE) and approved by the board.

(B) [Approved program is a preceptorship program approved by the board at an accredited chiropractic college.] “Intern” means a student that has completed a requisite curriculum for a doctor of chiropractic degree from a chiropractic

college except for the final clinical phase and is approved by a chiropractic college to participate in a preceptorship program.

(C) [Preceptorship program is a clinical program in which chiropractic interns participate under the direct supervision of a licensed chiropractic physician who has been approved by the college and the board to serve as a preceptor. The preceptorship program will operate in a facility where chiropractic services have been approved by the State Board of Chiropractic Examiners.] “Preceptor” means a chiropractic physician currently licensed and practicing in this state that has been approved by the chiropractic college and board to participate in a preceptorship program.

(D) [Preceptor or extension faculty member is a licensed chiropractic physician actively practicing in this state who has been appointed to the extension faculty of an accredited chiropractic college and has been approved by the board.] “Preceptorship program” means a clinical course of study for an intern that includes the following:

1. Examination and diagnosis;
2. Treatment protocols;
3. Outcome measures;
4. Doctor and patient communication skills;
5. Record keeping;
6. Case management; and
7. Interdisciplinary communication.

(E) [Intern is an individual enrolled in an accredited chiropractic college who has completed all requirements for the doctor of chiropractic degree except for the final clinical phase of the program.] “Supervision” means the preceptor shall be present and physically observe the intern at any time the intern is providing chiropractic services to a patient within the definition of section 331.010, RSMo. The preceptor shall provide direct supervision regarding services provided by the intern and shall have no more than one (1) intern providing services during the duration of preceptorship.

[(F) Licensed chiropractic physician means a chiropractic physician who is authorized to practice chiropractic in this state and is in good standing with the board.

(G) Direct supervision means a licensed chiropractic physician shall remain on the premises at all times and shall directly supervise and continuously monitor the intern’s performance.

(H) Board shall mean the Missouri State Board of Chiropractic Examiners.]

[(2) Preceptorship programs, as defined in this rule and when approved by the State Board of Chiropractic Examiners using the procedures provided in these rules, are determined by the board not to be the practice of chiropractic. Any program organized or operated not in accordance with these rules or which has not been approved by the board shall be considered to be the practice of chiropractic without a license.]

(2) A chiropractic college seeking to provide a preceptorship program shall submit an application to the board for approval of the preceptorship program and shall describe and document the following:

(A) The college shall clearly identify a preceptorship program supervisor or director. When a preceptorship program supervisor or director changes, the chiropractic college shall notify the board in writing within fifteen (15) days of such change;

(B) Proposed organization, content, duration, and schedule of the preceptorship program;

(C) Functions or duties of the intern;

(D) Legal responsibilities assumed by the chiropractic college;

(E) Functions, responsibilities, and duties of the preceptor(s);

(F) Forms to be used for evaluating intern performance; and

(G) Evidence of comprehensive general liability insurance that covers college employees and interns engaged in the preceptorship program.

[(3) Chiropractic preceptorship programs may be approved by the board if the following conditions have been met:

(A) The chiropractic college sponsoring the program shall have executed an agreement with the State Board of Chiropractic Examiners. The agreement shall conform with all laws of Missouri and with the rules of the State Board of Chiropractic Examiners;

(B) The program, at a minimum, must meet the following requirements:

1. Intern qualifications. To be eligible, an intern must be in good standing at the approved chiropractic college and file the necessary application forms, as required by the board, and pay a nonrefundable application fee. In addition, the applicant must submit three (3) letters of recommendation from clinical science professors at the intern's accredited chiropractic college, attesting to the intern's good moral character and clinical ability. The letters shall be submitted directly to the board by the professors making the recommendations; and

2. Preceptor qualifications. Preceptors in the program must meet the following qualifications:

A. The licensee's practice should have a minimum of fifty (50) patient visits, per doctor, per week;

B. Practice experience should have occurred for a minimum of three (3) years;

C. A current valid license shall be in good standing with no complaints or board actions pending;

D. The appearance of the office must be professional;

E. Procedures should be utilized, including taking a history, utilization of physical examinations and diagnostic procedures where indicated;

F. Current valid malpractice insurance shall be in place;

G. The preceptor must be approved by the intern's college and subject to the board's approval. The board shall have the right to refuse to allow, or withdraw its approval for, any licensee to act as a preceptor at any time; and

H. The preceptor must be a faculty member or extension faculty member of an authorized chiropractic college; and]

[(C) There shall be no more than one (1) intern per preceptor at any given time.]

(3) A licensed chiropractic physician must have the following qualifications to be considered for participation in a preceptorship program. Such documentation must be submitted to the chiropractic college and board for consideration as a preceptor.

(A) Malpractice insurance;

(B) Documentation of fifty (50) patient visits per week;

(C) Three (3) years of licensed, active practice of chiropractic in this state pursuant to section 331.010, RSMo or in another state;

(D) No discipline or complaints filed with the board or with the licensure board of another state; and

(E) Letter of approval and affiliation to the chiropractic college approved by the board for a preceptorship program.

[(4) A preceptor who is an extension faculty member may delegate duties within the scope of his/her license to an intern in accordance with these regulations. A preceptor may permit an intern to perform duties as a part of a clinical program, subject to the following conditions:

(A) The preceptor shall maintain direct supervision of the intern at all times; and

(B) The clinical training program shall be governed by a written agreement between the intern's college and the preceptor which—

1. Has been approved by the board;

2. Describes the specific program;

3. Enumerates the functions the intern may perform;

4. Indicates the legal responsibilities assumed by the intern's college; and

5. Enumerates the functions, responsibilities and duties of the preceptor.]

(4) A preceptor shall submit to the chiropractic college a detailed list of duties the intern shall be assigned. The intern shall be allowed to provide only those chiropractic services as authorized in section 331.010, RSMo and 4 CSR 70-2.020 and 4 CSR 70-2.030 under the supervision of the preceptor.

[(5) All approved colleges will be responsible for keeping and supplying the board with all records necessary for the implementation of this program.]

[(6)](5) No preceptorship program shall be considered as having been approved by the board until [a written statement of the board approval has been signed by the executive director of the board and has been received by the college] the chiropractic college has received a written letter of approval from the board.

AUTHORITY: section 331.100.2, RSMo 2000. Original rule filed April 16, 1990, effective June 30, 1990. Amended: Filed Aug. 13, 1990, effective Dec. 31, 1990. Amended: Filed Oct. 15, 1990, effective April 29, 1991. Amended: Filed July 31, 2003, effective Jan. 30, 2004. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the State Board of Chiropractic Examiners, Loree Kessler, Executive Director, PO Box 672, Jefferson City, MO 65102 or via e-mail at chiropractic@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 145—Missouri Board of Geologist Registration Chapter 1—General Rules

PROPOSED AMENDMENT

4 CSR 145-1.040 Fees. The board is proposing to amend section (1).

PURPOSE: This amendment allows the board to collect the examination fee in a more timely manner as it is changed by the Association of State Boards of Geology, allows the board to implement a biennial license renewal and allows the board to collect an uncollectible fee as mandated by statute.

(1) The following fees are established by the Board of Geologist Registration and are payable in the form of a cashier's check, personal check or money order:

(B) Examination and Reexamination Fees—

1. Fundamentals of Geology [\$ 125.00]
(amount determined by the Association of State Boards of Geology)
2. Principles and Practices of Geology [\$ 150.00]
(amount determined by the Association of State Boards of Geology)

(F) Until February 28, 2006—License Renewal Fee \$100.00
Beginning March 1, 2006 with the 2007 renewal
the License Renewal Fee \$200.00
and in addition to the renewal fee—

1. One (1) day to two (2) years late \$ 50.00
[(J) Insufficient Funds Check Fee Charge \$ 50.00.]

(J) Uncollectible Fee (charged for any uncollectible check or other uncollectible financial instrument submitted to the Missouri State Board of Geologist Registration) \$ 25.00

AUTHORITY: section 256.465.2, RSMo 2000. Emergency rule filed June 29, 1995, effective July 9, 1995, expired Nov. 5, 1995. Original rule filed Sept. 28, 1995, effective May 30, 1996. Amended: Filed April 13, 2001, effective Oct. 30, 2001. Amended: Filed Nov. 1, 2001, effective April 30, 2002. Amended: Filed March 18, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Board of Geologist Registration, Pamela Groose, Executive Director, PO Box 1335, Jefferson City, MO 65102-1335, by facsimile at (573) 526-3489 or via e-mail at geology@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 145—Missouri Board of Geologist Registration Chapter 2—Licensure Requirements

PROPOSED RESCISSION

4 CSR 145-2.060 Licensure by Reciprocity. This rule established requirements for licensure by reciprocity.

PURPOSE: This rule is being rescinded and readopted to better define reciprocity requirements.

AUTHORITY: sections 256.462.3, RSMo 1994 and 256.468, RSMo Supp. 1999. Emergency rule filed June 29, 1995, effective July 9, 1995, expired Nov. 5, 1995. Original rule filed Sept. 28, 1995, effective May 30, 1996. Amended: Filed July 11, 2000, effective Jan. 30, 2001. Rescinded: Filed March 18, 2005.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Board of Geologist Registration, Pamela Groose, Executive Director, PO Box 1335, Jefferson City, MO 65102-1335, by facsimile at (573) 526-3489 or via e-mail at geology@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 145—Missouri Board of Geologist Registration Chapter 2—Licensure Requirements

PROPOSED RULE

4 CSR 145-2.060 Licensure by Reciprocity

PURPOSE: This rule outlines the procedures to apply for licensure by reciprocity.

(1) An applicant may make application for licensure by reciprocity upon submission of the following to the board:

(A) Application form as provided by the board with supporting supplementary documentation, as requested;

(B) Proof of certification or registration from another state showing that the applicant is in good standing with the other state;

(C) Documentation that the licensing or registration requirements of the applicant's state of licensure are substantially similar to the requirements of the board at the time the applicant seeks licensure by the board; and

(D) Applicable fees.

(2) The board will consider the registration or licensing requirements of the other state to be substantially similar to the requirements of the board if the applicant for licensure by reciprocity has met the following criteria, at the time of application to the board:

(A) Proof of graduation from an accredited college or university;

(B) College and university transcripts showing successful completion of at least thirty (30) semester or forty-five (45) quarter hours, or their equivalent, in geology courses which are on topics involving the investigation and interpretation of the earth, including bedrock, overburden, groundwater and other liquids, minerals, gases, and the history of the earth and its life;

(C) Detailed summary of actual geologic work showing that the applicant has completed at least three (3) years of post-baccalaureate work in the practice of geology in responsible charge; and

(D) Proof of having achieved a passing score on the National Geologist Examination as developed by the National Association for the State Boards of Geology (ASBOG), or, evidence that the state of licensure, at the time of application to the Missouri Board, requires its applicants to successfully pass the ASBOG exam, or, evidence of successful completion of a state administered exam, approved by the board, which tests the applicant's knowledge of the fundamentals of geology and the principles and practices of geology.

AUTHORITY: sections 256.462.3 and 256.468, RSMo 2000. Emergency rule filed June 29, 1995, effective July 9, 1995, expired Nov. 5, 1995. Original rule filed Sept. 28, 1995, effective May 30, 1996. Amended: Filed July 11, 2000, effective Jan. 30, 2001. Rescinded and readopted: Filed March 18, 2005.

PUBLIC COST: This proposed rule will cost state agencies and political subdivisions approximately five hundred seventy dollars and seventy-five cents (\$570.75) annually for the life of the rule. It is anticipated that the costs will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

PRIVATE COST: This proposed rule will cost private entities approximately two thousand one hundred forty-three dollars and five cents (\$2,143.05) annually for the life of the rule. It is anticipated that the cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

*NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Board of Geologist Registration, Pamela Groose, Executive Director, PO Box 1335, Jefferson City, MO 65102-1335, by facsimile at (573) 526-3489 or via e-mail at geology@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the **Missouri Register**. No public hearing is scheduled.*

PUBLIC ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 145 - Missouri Board of Geologist Registration

Chapter 2 - Licensure Requirements

Proposed Rule - 4 CSR 145-2.060 Licensure by Reciprocity

Prepared February 18, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Affected Agency or Political Subdivision	Estimated Annual Cost of Compliance
Missouri Board of Geologist Registration	\$570.75
Total Annual Cost of Compliance for the Life of the Rule	
	\$570.75

III. WORKSHEET

1. CALCULATION OF EXPENSE AND EQUIPMENT AND PERSONAL SERVICE COSTS:

The board anticipates the staff will perform the following duties:

Licensure Technician II - Reviews application for completeness, updates division's licensing system, prepares and sends follow up letters, follows up with applicant for any additional information needed, responds to telephone inquiries, processes all documentation, prepares flow sheet for board review, prepares file for board review, updates division's licensing system after board review, and issues the license.

Clerk IV - Prepares decision letter for executive review and approval, prints seal application, prints wall hanging license, copies letter and wall hanging license for file, and mails licensure documentation to licensee.

Executive Director - Reviews file prior to board review and prepares and reviews decision letter.

Salaries for the staff are shared with other boards within the division. The figures below represent the personal service costs supported by the State Board of Chiropractic Examiners.

Employee's salaries were calculated using their annual salary multiplied by 40.77% for fringe benefits and then were divided by 2080 hours per year to determine the hourly salary. The hourly salary was then divided by 60 minutes to determine the cost per minute. The cost per minute was then multiplied by the amount of time individual staff spent on the processing of applications. The total cost was based on the cost per application multiplied by the estimated number of applications.

STAFF	ANNUAL SALARY	SALARY TO INCLUDE FRINGE BENEFIT	HOURLY SALARY	TIME PER APPLICATION	COST PER APPLICATION	TOTAL COST
Executive Director	\$51,300	\$72,215.01	\$34.72	15 minutes	\$8.68	\$130.20
Clerk IV	\$28,740	\$40,457.30	\$19.45	15 minutes	\$4.86	\$72.90
Licensure Technician II	\$24,144	\$33,987.51	\$16.34	90 minutes	\$24.51	\$367.65

IV. ASSUMPTIONS

1. In the event inadequate information is submitted, it may be necessary for the board to review an application but it is not anticipated.
2. The board does not anticipate any growth in the number of applications received each year.
3. The total cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

NOTE: The public fiscal note for this rule only reflects the cost for this particular process. However, private entity fees are set at an amount to cover the total actual cost incurred by the board, which includes personal service, expense and equipment and transfers.

PRIVATE ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 145 - Missouri Board of Geologist Registration

Chapter 2 - Licensure Requirements

Proposed Rule - 4 CSR 145-2.060 Licensure by Reciprocity

Prepared February 18, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Estimate the number of entities by class which would likely be affected by the adoption of the proposed amendment:	Classification by type of the business entities which would likely be affected:	Estimated annual cost of compliance with the amendment by affected entities:
15	Applicants (application fee @ \$125)	\$1,875.00
15	Endorsement (transcript @ \$15)	\$225.00
15	Applicant (notary @ \$2.50)	\$37.50
15	Applicants (postage @ \$.37)	\$5.55
Estimated Annual Cost of Compliance for the Life of the Rule		\$2,143.05

III. WORKSHEET

See table above.

IV. ASSUMPTION

1. The above figures were based on FY04 actuals and FY05 projections.
2. The board does not anticipate any growth in the number of applications received each year.
3. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 150—State Board of Registration
for the Healing Arts**

Chapter 2—Licensing of Physicians and Surgeons

PROPOSED AMENDMENT

4 CSR 150-2.050 [Biennial] Annual Registration Penalty. The board is proposing to amend the original Purpose statement and the title of the rule.

PURPOSE: *This amendment allows the board to return to an annual renewal.*

PURPOSE: *This rule provides information to physicians and surgeons permanently licensed in Missouri regarding penalty of not registering [biennially] annually.*

AUTHORITY: *sections 334.075, 334.080 and 334.125, RSMo 2000. Original rule filed Dec. 19, 1975, effective Dec. 29, 1975. Amended: Filed July 3, 1989, effective Dec. 1, 1989. Amended: Filed April 13, 2001, effective Oct. 30, 2001. Amended: Filed March 18, 2005.*

PUBLIC COST: *This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

PRIVATE COST: *This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Healing Arts, Attn: Tina Steinman, Executive Director, 3605 Missouri Blvd., PO Box 4, Jefferson City, MO 65102 or healingarts@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

AUTHORITY: *sections 334.090.2 and 334.125, RSMo 2000. Emergency rule filed July 1, 1981, effective July 11, 1981, expired Nov. 8, 1981. Original rule filed July 14, 1981, effective Oct. 11, 1981. For intervening history, please consult the Code of State Regulations. Amended: Filed March 18, 2005.*

PUBLIC COST: *This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

PRIVATE COST: *This proposed amendment will cost private entities an increase of seven hundred twenty-three thousand four hundred fifteen dollars (\$723,415) for the life of the rule. It is anticipated that the cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.*

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Healing Arts, Attn: Tina Steinman, Executive Director, 3605 Missouri Blvd., PO Box 4, Jefferson City, MO 65102 or healingarts@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 150—State Board of Registration
for the Healing Arts**

Chapter 2—Licensing of Physicians and Surgeons

PROPOSED AMENDMENT

4 CSR 150-2.080 Fees. The board is proposing to amend subsection (1)(J).

PURPOSE: *The State Board of Registration for the Healing Arts is statutorily obligated to enforce and administer the provisions of Chapter 334, RSMo. The board shall by rule and regulation set the amount of fees authorized by section 334.090, RSMo so that the revenue produced is sufficient, but not excessive, to cover the cost and expense to the board for administering the provisions of sections 334.002 to 334.265, RSMo. This proposed amendment is necessary because the board's fund balance and projected revenue will not support the expenditures necessary to enforce and administer the provisions of sections 334.002 to 334.265, RSMo, which will result in an endangerment to the health, welfare, and safety of the public.*

(1) The following fees are established by the State Board of Registration for the Healing Arts:

(J) Renewal of Certificate of Registration

Fee [\$200.00] \$135.00

PRIVATE ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 150 - State Board of Registration for the Healing Arts

Chapter 2 - Licensing of Physicians and Surgeons

Proposed Amendment - 4 CSR 150-2.080 Fees

Prepared March 8, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Annual Increase Comply Beginning in FY06

Estimate the number of entities by class which would likely be affected by the adoption of the proposed amendment:	Classification by type of the business entities which would likely be affected:	Estimated annual increase of compliance with the amendment by affected entities:
20,669	Licenseses (Renewal of Certificate of Registration Fee - \$35 increase)	\$723,415
	Estimated Annual Increase for the Life of the Rule	\$723,415

III. WORKSHEET

See table above.

IV. ASSUMPTION

1. The figures above are based on FY04 actuals and FY06 projections. Based on the current licensee count, the board estimates that 20,669 licensees will be affected by the \$35 annual renewal fee increase beginning in FY06. The board anticipates the number of licensees to remain constant over the life of the rule.
2. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

NOTE: The board is statutorily obligated to enforce and administer the provisions of Chapter 334, RSMo. Pursuant to Section 334.050, RSMo, the board shall by rule and regulation set the amount of fees authorized by Chapter 334, RSMo so that the revenue produced is sufficient, but not excessive, to cover the cost and expense to the board for administering the provisions of Chapter 334, RSMo. This proposed amendment is necessary because the board's projected revenue will not support the expenditures necessary to enforce and administer the provisions of Chapter 334, RSMo, which will result in an endangerment to the health, welfare, and safety of the public.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 150—State Board of Registration for the Healing Arts

Chapter 2—Licensing of Physicians and Surgeons

PROPOSED AMENDMENT

4 CSR 150-2.125 Continuing Medical Education. The board is proposing to amend sections (1) and (2), subsections (4)(A) and (4)(D), and sections (6)–(8).

PURPOSE: *This amendment changes the requirement from obtaining CME biennially to annually.*

(1) Effective February 1, ~~[2002]~~ **2006**, each licensee, **on a yearly basis**, shall complete and report at least ~~[fifty (50)]~~ **twenty-five (25)** hours of continuing medical education ~~[each renewal period]~~. The board shall not issue a renewal of a licensee's certificate of registration unless the licensee demonstrates completion of ~~[fifty (50)]~~ **twenty-five (25)** hours of continuing medical education accredited by the American Osteopathic Association (AOA) as Category 1-A or 2-A, by the American Medical Association (AMA) as Category 1 or American Academy of Family Practice Prescribed Credit, in the immediately preceding reporting period. A licensee is not required to complete any continuing medical education hours in the renewal period in which the licensee is initially licensed to practice the healing arts in Missouri if the licensee has not previously held a permanent license to practice the healing arts in Missouri or any other state in the United States of America. The period for completion of the continuing medical education requirements shall be the ~~[twenty-four (24)]~~ **twelve (12)**-month period beginning January 1 ~~[of each even-numbered year]~~ and ending December 31 ~~[of each odd-numbered]~~ **each** year. A licensee who has failed to obtain and report, in a timely fashion, ~~[fifty (50)]~~ **twenty-five (25)** hours of continuing medical education shall not engage in the practice of medicine unless an extension is obtained pursuant to section (4) of this rule.

(A) A licensee shall be deemed to have complied with section (1) of this rule if the licensee completes ~~[forty (40)]~~ **twenty (20)** hours of continuing medical education and each course, seminar or activity includes a post-test of the material covered in the ~~[forty (40)]~~ **twenty (20)** continuing medical education hours. The ~~[forty (40)]~~ **twenty (20)** hours must all be accredited by the AOA as Category 1-A or by the AMA as Category 1.

(2) Each licensee shall certify by attestation, under penalty of perjury, that s/he has completed the required hours of continuing medical education ~~[listed by him/her]~~ on the renewal form (see 4 CSR 150-2.040).

(4) A licensee who cannot complete the required hours of continuing medical education because of personal illness, military service or other circumstances beyond the licensee's control which the board deems to be sufficient to impose an insurmountable hardship may apply for an extension of time to complete the continuing medical education requirements. Any extension of time to complete the continuing medical education requirements will be granted solely in the discretion of the board. The licensee must make a written application for extension of time prior to the December 31 deadline for completion of the continuing medical education requirement. The application for extension shall be accompanied by a processing fee of fifty dollars (\$50), together with the application for extension. The licensee shall provide full and complete written documentation of the grounds supporting the reasons for which an extension is sought. A licensee who requests an extension of time to complete the required hours of continuing medical education shall not engage in the active practice of the healing arts until the board grants the licensee's

request for extension and the licensee receives express written authorization to do so.

(A) **Licensees in the Military** ~~[service extensions may be granted only to a licensee who was absent from the United States]~~ **are exempt from obtaining continuing medical education if they are called to active duty under competent orders** for at least a majority of the reporting period due to his/her military service commitment ~~[under combat circumstances or pursuant to a state of national emergency]~~. At a minimum, the licensee must submit written documentation from the appropriate military authorities verifying the licensee's military service commitment ~~[and the periods during which the commitment was being fulfilled under a combat or national emergency status, the number of hours earned during the reporting period and a plan for the completion of the balance of the requirement]~~.

(D) A licensee who is granted an extension of time shall complete the balance of his/her continuing medical education requirements no later than ~~[April 30]~~ **February 28** immediately following the end of the reporting period for which an extension was sought and shall provide the board with written documentation of his/her completion of the continuing medical education requirements no later than ~~[May]~~ **March 10** immediately following the end of the reporting period for which an extension was sought. Failure to complete the continuing medical education requirements by ~~[April 30]~~ **February 28** or to file the documentation with the board by ~~[May]~~ **March 10** shall constitute a violation of section 334.075, RSMo and this rule.

(6) A licensee who participated in an AMA- or AOA-approved internship or residency program during the reporting period shall be deemed to have obtained the required hours of continuing medical education if at least ~~[sixty (60)]~~ **thirty (30)** days of the reporting period were spent in the internship or residency.

(7) A licensee who participated in a fellowship program in an approved teaching institution shall be deemed to have obtained the required hours of continuing medical education if at least ~~[sixty (60)]~~ **thirty (30)** days of the reporting period were spent in the fellowship and the fellowship is determined to be advanced training. Upon request, the licensee shall provide documentation from the fellowship program director verifying the number of days in the program and that the program is advanced training.

(8) A licensee who holds a limited license to practice medicine in the state of Missouri shall obtain and report to the board ten (10) hours of AMA Category 1 or AOA Category 1-A or 2-A continuing medical education each reporting period. ~~[The obtaining and reporting of these hours shall be done in accordance with this rule.]~~ **The period for completion of the continuing medical education requirements for a licensee who holds a limited license shall be the twenty-four (24)-month period beginning January 1 of each even-numbered year and ending December 31 of each odd-numbered year.**

AUTHORITY: *sections 334.075 and 334.125, RSMo 2000. Original rule filed Oct. 16, 1991, effective March 9, 1992. For intervening history, please consult the Code of State Regulations. Amended: Filed March 18, 2005.*

PUBLIC COST: *This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

PRIVATE COST: *This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Healing Arts, Attn: Tina Steinman, Executive Director, 3605 Missouri Blvd., PO Box 4, Jefferson City, MO 65102*

or healingarts@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 150—State Board of Registration
for the Healing Arts**

**Chapter 3—Licensing of Physical Therapists and Physical
Therapy Assistants**

PROPOSED AMENDMENT

4 CSR 150-3.010 Applicants for Licensure as Professional Physical Therapists. The board is proposing to amend section (2).

PURPOSE: This rule adds language that was inadvertently omitted during the previous rule amendment.

(2) The applicant must furnish satisfactory evidence of completion of a program of physical therapy education approved as reputable by the board. If the applicant graduated on or before December 31, 2002 he/she must present evidence that his/her physical therapy degree is the equivalent of a bachelor's degree in physical therapy from a United States college or university. If the applicant graduated after December 31, 2002 he/she must present evidence that his/her physical therapy degree is equivalent of a master's degree in physical therapy from a United States college or university. An applicant who presents satisfactory evidence of graduation from a physical therapy program approved as reputable by the Commission on Accreditation in Physical Therapy Education, or its successor, shall be deemed to have complied with the education requirements of this section.

AUTHORITY: sections 334.125, RSMo 2000 and 334.530 and 334.550, RSMo Supp. 2004.* Original rule filed Dec. 19, 1975, effective Dec. 29, 1975. For intervening history, please consult the *Code of State Regulations*. Amended: Filed March 18, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Healing Arts, Attn: Tina Steinman, Executive Director, 3605 Missouri Blvd., PO Box 4, Jefferson City, MO 65102 or healingarts@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 150—State Board of Registration
for the Healing Arts**

**Chapter 4—Licensing of Speech-Language Pathologists
and Audiologists**

PROPOSED AMENDMENT

4 CSR 150-4.055 Applicants for Provisional Licensure. The board is proposing to amend section (6).

PURPOSE: This amendment deletes a part of the rule that conflicts with section 345.022.2, RSMo.

(6) Applicants for provisional licensure must submit the following documentation:

[(B)] *Proof of passage of the National Examination in Speech-Language Pathology and/or Audiology. Examination scores must be submitted to the board directly from the Educational Testing Service. The passing score shall remain consistent with the passing score set by the American Speech-Language-Hearing Association, on the date of licensure application;*

[(C)] (B) Applicants shall provide, on forms prescribed by the board, a plan for completion of the supervised postgraduate professional experience. This form must be signed by a supervisor holding current permanent Missouri licensure, in the area in which the applicant seeks licensure. The plan shall consist of at least thirty-six (36) weeks of full-time professional experience. A minimum of thirty (30) hours of work per week constitutes full-time employment. If the applicant works twenty-five to twenty-nine (25–29) hours per week, the length of the experience must be at least forty-eight (48) weeks. If the applicant works twenty to twenty-four (20–24) hours per week, the length of the experience must be at least sixty (60) weeks. If the applicant works fifteen to nineteen (15–19) hours per week, the length of the experience must be at least seventy-two (72) weeks;

[(D)] (C) At the conclusion of the supervised postgraduate experience period, the supervisor and the provisional licensee shall sign and submit a board prescribed report which documents completion of the experience; and

[(E)] (D) Verification of licensure or registration to practice in another state or territory shall be submitted to the board directly from the licensing/registration agency.

AUTHORITY: sections 345.022 and 345.030, RSMo [Supp. 1999] 2000. Original rule filed July 12, 1996, effective Jan. 30, 1997. Amended: Filed July 25, 2000, effective Dec. 30, 2000. Amended: Filed March 18, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Healing Arts, Attn: Tina Steinman, Executive Director, 3605 Missouri Blvd., PO Box 4, Jefferson City, MO 65102 or healingarts@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 232—Missouri State Committee of Interpreters
Chapter 1—General Rules**

PROPOSED AMENDMENT

4 CSR 232-1.040 Fees. The committee is proposing to add subsection (1)(F).

PURPOSE: This rule establishes the fees for the licensure of interpreters.

(1) The following fees are established and are payable in the form of a cashier's check, personal check, or money order:

(F) **Mentorship Application Fee**

\$10.00

AUTHORITY: section 209.328.2(2), RSMo 2000. Original rule filed Feb. 18, 1999, effective July 30, 1999. Amended: Filed Dec. 1, 2000, effective May 30, 2001. Amended: Filed March 18, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Committee of Interpreters, Pamela Groose, Executive Director, PO Box 1335, Jefferson City, MO 65102, by facsimile to (573) 526-3489, or by e-mail at interpreters@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 232—Missouri State Committee of Interpreters Chapter 2—Licensure Requirements

PROPOSED AMENDMENT

4 CSR 232-2.030 Name and Address Change and License Renewal. The committee is proposing to amend section (2).

PURPOSE: This rule outlines the requirements for changing a name or address and the process for renewing a license to practice as an interpreter.

(2) A licensed interpreter whose name is legally changed shall notify the committee within thirty (30) days of the name change [and provide a copy of the appropriate document verifying the name change].

AUTHORITY: section 209.328.2, RSMo [1994] 2000. Original rule filed Feb. 18, 1999, effective July 30, 1999. Amended: Filed March 18, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Committee of Interpreters, Pamela Groose, Executive Director, PO Box 1335, Jefferson City, MO 65102, by facsimile to (573) 526-3489, or by e-mail at interpreters@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 232—Missouri State Committee of Interpreters Chapter 3—Ethical Rules of Conduct

PROPOSED AMENDMENT

4 CSR 232-3.010 General Principles. The committee is proposing to amend sections (2) and (3).

PURPOSE: This rule provides the ethical principles governing the practice of interpreting.

(2) An interpreter must maintain a current certification with the Missouri Commission for the Deaf and Hard of Hearing as defined by section 209.285(3), RSMo.

(3) An interpreter shall not interpret in a setting beyond his or her certification level, as provided for in 5 CSR 100-200.170.

(A) This rule does not apply to a licensed, certified interpreter acting in a mentee role as outlined in 4 CSR 232-3.030.

AUTHORITY: sections 209.328.1, RSMo 2000 and 209.334, RSMo Supp. [2003] 2004. Original rule filed Feb. 18, 1999, effective July 30, 1999. Amended: Filed Dec. 1, 2000, effective May 30, 2001. Amended: Filed Nov. 6, 2002, effective May 30, 2003. Amended: Filed Sept. 8, 2003, effective March 30, 2004. Amended: Filed March 18, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Committee of Interpreters, Pamela Groose, Executive Director, PO Box 1335, Jefferson City, MO 65102, by facsimile to (573) 526-3489, or by e-mail at interpreters@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 232—Missouri State Committee of Interpreters Chapter 3—Ethical Rules of Conduct

PROPOSED RULE

4 CSR 232-3.030 Mentorship

PURPOSE: This rule outlines how an interpreter may participate in an area above the skill level currently held by the mentee as prescribed in 5 CSR 100-200.170 Skill Level Standards on the basis of a mentor relationship.

(1) For the purpose of this rule, a mentorship is a supervised professional experience in which a mentor interpreter provides instruction, guidance, and oversight to a mentee interpreter while engaged in a series of instructional activities designed with the purpose of attaining clearly defined, specific professional development goals.

(A) Applications for mentorship shall be submitted to the committee/division on forms prescribed by the committee/division and furnished to the applicant, sixty (60) days prior to the start of the mentorship. The application shall contain statements demonstrating the education, professional experience, and certification by either the National Registry of Interpreters for the Deaf, National Association of the Deaf, or Missouri Interpreters Certification System and such other information as the committee may require. The application

shall also contain a description of the professional development goals for the mentorship, the instructional activities that will be used to accomplish those goals, and the methods of assessment that will be used to evaluate those goals.

(B) Each application shall be accompanied by the required application fee. The application fee must be submitted in a manner as required by the committee and shall not be refundable. A mentorship shall be valid for a period of time not to exceed six (6) consecutive months.

(2) A mentor interpreter shall be an interpreter who has a current license, and a current Missouri Interpreters Certification System (MICS) Intermediate, Advanced or Comprehensive certification or a current National Registry of Interpreters for the Deaf (NRID) or National Association of the Deaf (NAD) certification as prescribed in section 209.322, RSMo.

(A) The mentor shall be limited to a maximum of three (3) mentoring relationships during any six (6) consecutive month period.

(3) A mentee shall be an interpreter who has a current license, and a current Missouri Interpreters Certification System (MICS) Novice, Apprentice or Intermediate certification or a current National Association of the Deaf (NAD) level 3 certification as prescribed in section 209.322, RSMo.

(A) The mentee shall be limited to a maximum of three (3) mentoring relationships during any six (6) consecutive month period.

(4) While engaged in a mentorship approved by the committee and while under the direct supervision of a mentor interpreter, a mentee interpreter may interpret in an interpreting assignment that is one (1) skill level above the mentee's current certification level as prescribed in the Skill Level Standards, 5 CSR 100-200.170.

(A) The mentee shall revert the duties of the assignment to the mentor at the mentor's request.

(B) A mentor shall function as a guide and provide oversight to the mentee in the interpreting assignment. The mentor must have the appropriate training, skills, education, and certification for the assignment as required by the Skill Level Standards (5 CSR 100-200.170).

(C) The mentor must be present and is responsible for the accuracy of the interpretation within the interpreting assignment.

(D) Prior to the interpreting assignment, all participants in the assignment must be informed of the license and certification level held by the mentor interpreter and mentee interpreter as required in 4 CSR 232-3.020 and of the responsibilities of the mentor interpreter and mentee interpreter as defined in 4 CSR 232-3.030(4).

(E) Prior to the interpreting assignment, all participants in the assignment must give approval for the mentee interpreter to interpret, while under the direct supervision of the mentor interpreter.

(F) The mentor is not responsible for the actions and conduct of the mentee outside of the interpreting assignment.

(G) The interpreting assignment shall be no more than two (2) hours in length.

(H) Interpreting assignments utilized for mentorship will not include medical, mental health or legal assignments, which require Advanced or Comprehensive certification as prescribed by the Skill Level Standards, 5 CSR 100-200.170.

AUTHORITY: section 209.328.1, RSMo 2000. Original rule filed March 18, 2005.

PUBLIC COST: This proposed rule will cost state agencies and political subdivisions approximately two hundred ninety-one dollars and forty-five cents (\$291.45) annually for the life of the rule. It is anticipated that the cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the

Legislative Oversight Committee.

PRIVATE COST: This proposed rule will cost private entities approximately eighty-two dollars and ninety-six cents (\$82.96) annually for the life of the rule. It is anticipated that the costs will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri State Committee of Interpreters, Pamela Groose, Executive Director, PO Box 1335, Jefferson City, MO 65102, by facsimile to (573) 526-3489, or by e-mail at interpreters@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the **Missouri Register**. No public hearing is scheduled.

PUBLIC ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 232 - Missouri State Committee of Interpreters

Chapter 3 - Ethical Rules of Conduct

Proposed Rule - 4 CSR 232-3.030 Mentorship

Prepared March 7, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Affected Agency or Political Subdivision	Estimated Annual Cost of Compliance
State Committee of Interpreters	\$291.45
Total Annual Cost of Compliance for the Life of the Rule	
	\$291.45

III. WORKSHEET

1. CALCULATION OF EXPENSE AND EQUIPMENT AND PERSONAL SERVICE COSTS:

The board anticipates the staff will perform the following duties:

Licensure Technician II - Reviews application for completeness, updates division's licensing system, prepares and sends follow up letters, follows up with applicant for any additional information needed, responds to telephone inquiries, processes all documentation, prepares flow sheet for board review, prepares file for board review, updates division's licensing system after board review, and issues the license.

Clerk IV - Prepares decision letter for executive review and approval, prints seal application, prints wall hanging license, copies letter and wall hanging license for file, and mails licensure documentation to license.

Executive Director - Reviews file prior to board review and prepares and reviews decision letter and board meeting minutes for accuracy.

Salaries for the staff are shared with other boards within the division. The figures below represent the personal service costs supported by the State Board of Chiropractic Examiners.

Employee's salaries were calculated using their annual salary multiplied by 40.77% for fringe benefits and then were divided by 2080 hours per year to determine the hourly salary. The hourly salary was then divided by 60 minutes to determine the cost per minute. The cost per minute was then multiplied by the amount of time individual staff spent on the processing of applications. The total cost was based on the cost per application multiplied by the estimated number of applications.

STAFF	ANNUAL SALARY	SALARY TO INCLUDE FRINGE BENEFIT	HOURLY SALARY	COST PER MINUTE	TIME PER APPLICATION	COST PER APPLICATION	TOTAL COST
Executive Director	\$51,300	\$72,215.01	\$34.72	\$0.58	15 minutes	\$8.68	\$69.44
Clerk IV	\$28,740	\$40,457.30	\$19.45	\$0.32	10 minutes	\$3.24	\$25.93
Licensure Technician II	\$24,144	\$33,987.51	\$16.34	\$0.27	90 minutes	\$24.51	\$196.08

IV. ASSUMPTIONS

1. Because members of the committee will review the application during their regularly scheduled meetings, no additional per diem was calculated for the purpose of this fiscal note.
2. The board does not anticipate any growth in the number of applications received each year.
3. The total cost will recur for the life of the rule, may vary with inflation and is expected to increase at the rate projected by the Legislative Oversight Committee.

NOTE: The public fiscal note for this rule only reflects the cost for this particular process. However, private entity fees are set at an amount to cover the total actual cost incurred by the board, which includes personal service, expense and equipment and transfers.

PRIVATE ENTITY FISCAL NOTE

I. RULE NUMBER

Title 4 -Department of Economic Development

Division 232 - Missouri State Committee of Interpreters

Chapter 3 - Ethical Rules of Conduct

Proposed Rule - 4 CSR 232-3.030 Mentorship

Prepared March 7, 2005 by the Division of Professional Registration

II. SUMMARY OF FISCAL IMPACT

Estimate the number of entities by class which would likely be affected by the adoption of the proposed amendment:	Classification by type of the business entities which would likely be affected:	Estimated annual cost of compliance with the amendment by affected entities:
8	Applicants (application fee @ \$10)	\$80.00
8	Applicants (postage @ \$.37)	\$2.96
Estimated Annual Cost of Compliance for the Life of the Rule		\$82.96

III. WORKSHEET

See table above.

IV. ASSUMPTION

1. The above figures were based on FY04 actuals and FY05 projections.
2. The board does not anticipate any growth in the number of applications received each year.
3. It is anticipated that the total cost will recur annually for the life of the rule, may vary with inflation and is expected to increase annually at the rate projected by the Legislative Oversight Committee.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 263—State Committee for Social Workers
Chapter 2—Licensure Requirements**

PROPOSED AMENDMENT

4 CSR 263-2.045 Provisional Licensed Clinical Social Worker.

The board is proposing to add a new section (5) and renumber the remaining sections accordingly.

PURPOSE: This amendment specifies the term of a provisional license.

(5) The term of a provisional clinical social worker license shall be no more than forty-eight (48) consecutive calendar months except under extenuating circumstances as determined by the committee. The provisional clinical social work license shall be valid only while the licensee is under active supervision as defined by rule. The provisional clinical social work license will terminate with the issuance of a clinical social work license.

[[5]] (6) The applicant for provisional clinical social work licensure shall provide clinical social work as defined in section 337.600(1), RSMo, under the order, control, oversight, guidance, and full professional responsibility of the approved registered supervisor at the setting(s) approved by the committee.

[[6]] (7) A provisional licensed clinical social worker may be employed in the supervisor's private practice setting or in the private practice of another. In those instances, the supervisor may bill clients for services rendered by the provisional licensed clinical social worker but under no circumstances shall the provisional licensed clinical social worker bill the clients directly for services rendered. The only exception to this section shall be when reimbursement for services is provided under Title XIX (Medicaid) through the Missouri Department of Social Services Medicaid Services Division. A provisional licensed clinical social worker may accept a Medicaid reimbursement number and services may be billed through that number, provided such reimbursement is administered through the professional setting employing the provisional licensed clinical social worker, and not directly paid to the provisional licensed clinical social worker. The professional setting shall not include private practice in which the provisional licensed clinical social worker operates, manages or has an ownership interest in the private practice.

[[7]] (8) Provisional licensed clinical social workers shall report any change of supervisor, setting, or both in writing on a Change of Status form provided by the committee. There is no fee for updating a change of supervision and/or setting. The committee shall notify both the provisional licensed clinical social worker and registered supervisor, in writing, of the committee's approval or refusal of the registration of supervision.

AUTHORITY: sections 337.600, 337.612 and 337.615, RSMo Supp. [2003] 2004 and 337.627[,] and 337.630, RSMo 2000. Original rule filed Dec. 30, 1998, effective July 30, 1999. Amended: Filed Oct. 30, 2002, effective June 30, 2003. Amended: Filed March 15, 2004, effective Sept. 30, 2004. Amended: Filed March 28, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the State Committee for Social Workers, Attention: Executive Director, PO Box 1335, Jefferson City, MO 65102, by faxing (573) 526-3489 or via e-mail at lcsww@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 263—State Committee for Social Workers
Chapter 2—Licensure Requirements**

PROPOSED AMENDMENT

4 CSR 263-2.047 Provisional Licensed Baccalaureate Social Worker. The board is proposing to add a new section (5) and renumber the remaining sections accordingly.

PURPOSE: This amendment specifies the term of a provisional license.

(5) The term of a provisional baccalaureate social work license shall be no more than forty-eight (48) consecutive calendar months except under extenuating circumstances as determined by the committee. The provisional baccalaureate social work license shall be valid only while the licensee is under active supervision as defined by rule. The provisional baccalaureate social work license will terminate with the issuance of a baccalaureate social work license.

[[5]] (6) The applicant for provisional baccalaureate social work licensure shall provide baccalaureate social work as defined in section 337.653.1, RSMo, under the order, control, oversight, guidance, and full professional responsibility of the approved registered supervisor at the setting(s) approved by the committee.

[[6]] (7) A provisional licensed baccalaureate social worker may be employed in the supervisor's private practice setting or in the private practice of another. In those instances, the supervisor may bill clients for services rendered by the provisional licensed baccalaureate social worker but under no circumstances shall the provisional licensed baccalaureate social worker bill the clients directly for services rendered. The professional setting shall not include private practice in which the provisional licensed baccalaureate social worker operates, manages or has an ownership interest in the private practice.

[[7]] (8) Provisional licensed baccalaureate social workers shall report any change of supervisor, setting, or both in writing on a Change of Status form provided by the committee. There is no fee for updating a change of supervision and/or setting. The committee shall notify both the provisional licensed baccalaureate social worker and registered supervisor, in writing, of the committee's approval or refusal of the registration of supervision.

AUTHORITY: sections 337.650, 337.653, 337.665 and 337.677, RSMo Supp. [2003] 2004. Original rule filed Oct. 30, 2002, effective June 30, 2003. Amended: Filed March 15, 2004, effective Sept. 30, 2004. Amended: Filed March 28, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed amendment with the State Committee for Social Workers, Attention: Executive Director, PO Box 1335, Jefferson City, MO 65102, by faxing (573) 526-3489 or via e-mail at lcsww@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

**Title 5—DEPARTMENT OF ELEMENTARY
AND SECONDARY EDUCATION
Division 50—Division of School Improvement
Chapter 340—School Improvement and Accreditation**

PROPOSED RESCISSION

5 CSR 50-340.110 Policies and Standards Relating to Academically Deficient Schools. This rule established the criteria and procedures to be used to identify academically deficient schools and set the standards to be used for an educational audit.

PURPOSE: *This rule is being rescinded because the passage of Senate Bill 1080 repealed the legislation which served as the basis for this rule.*

AUTHORITY: *sections 160.538, RSMo 2000 and 161.092, RSMo Supp. 2002. Previously filed as 5 CSR 30-340.010. Original rule filed Sept. 5, 1996, effective March 30, 1997. Rescinded and readopted: Filed March 22, 1999, effective Sept. 30, 1999. Amended and moved to 5 CSR 50-340.110: Filed Sept. 27, 2001, effective May 30, 2002. Amended: Filed April 23, 2003, effective Nov. 30, 2003. Rescinded: Filed April 1, 2005.*

PUBLIC COST: *This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

PRIVATE COST: *This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed rescission with the Department of Elementary and Secondary Education, Attn: Ginny Vandelight, Assistant Director, MO School Improvement and Accreditation, Division of School Improvement, PO Box 480, Jefferson City, MO 65102-0480. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

**Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 10—Air Conservation Commission
Chapter 2—Air Quality Standards and Air Pollution
Control Rules Specific to the Kansas City
Metropolitan Area**

PROPOSED AMENDMENT

10 CSR 10-2.390 Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 U.S.C. or the Federal Transit Laws. The commission proposes to amend original sections (1), (2) and (7), and original subsections (4)(B)–(4)(E), (5)(A), (5)(C), (5)(E), (6)(B), (6)(C), (9)(A)–(9)(C), (10)(A) and (15)(C); renumber and amend original sections (16)–(23) and (25); renumber original section (24); add new subsections (9)(D)–(9)(L) and new sections (16), (17) and (23). If the commission adopts this

rule action, it will be submitted to the U.S. Environmental Protection Agency to replace the current rule in the Missouri State Implementation Plan. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Air Pollution Control Program at the address and phone number listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Environmental Regulatory Agenda website, www.dnr.mo.gov/reg/regagenda.htm.

PURPOSE: *This rule implements section 176(c) of the Clean Air Act (CAA), as amended (42 U.S.C. 7401 et seq.), and the related requirements of 23 U.S.C. 109(j), with respect to the conformity of transportation plans, programs, and projects which are developed, funded, or approved by the United States Department of Transportation (DOT), and by metropolitan planning organizations (MPOs) or other recipients of funds under Title 23 U.S.C. or the Federal Transit Laws (49 U.S.C. Chapter 53). This rule sets forth policy, criteria, and procedures for demonstrating and assuring conformity of such activities to the applicable implementation plan, developed pursuant to section 110 and Part D of the CAA. This rule applies to the Kansas City ozone maintenance area. This amendment will make several changes to the current rule requiring transportation plans, programs, and projects to conform to state air quality implementation plans. This amendment will adopt specific revisions to the Federal Transportation Conformity Rule as amended July 1, 2004. A Transportation Conformity State Implementation Plan (SIP) revision consistent with this federal amendment must be submitted to the U.S. Environmental Protection Agency (EPA) within twelve (12) months. The evidence supporting the need for this proposed rulemaking, per section 536.016, RSMo, is the **Federal Register** Notice issued July 1, 2004, (Volume 69, Number 126, Pages 40003-40081), regarding Transportation Conformity Rule Amendments for the New 8-Hour Ozone and PM_{2.5} National Ambient Air Quality Standards.*

(1) Definitions.

(A) Terms used but not defined in this rule shall have the meaning given them by the **Clean Air Act (CAA)**, Titles 23 and 49 **United States Code (U.S.C.)**, other United States Environmental Protection Agency (EPA) regulations, other **United States Department of Transportation (DOT)** regulations, or other state or local air quality or transportation rules, in that order of priority. Definitions for some terms used in this rule may be found in 10 CSR 10-6.020.

(B) Additional definitions specific to this rule are as follows:

1. One (1)-hour ozone National Ambient Air Quality Standard (NAAQS)—the one (1)-hour ozone national ambient air quality standard codified at 40 CFR 50.9;

2. Eight (8)-hour ozone National Ambient Air Quality Standard (NAAQS)—the eight (8)-hour ozone national ambient air quality standard codified at 40 CFR 50.10;

[1.3.] Applicable implementation plan—defined in section 302(q) of the CAA, the portion (or portions) of the implementation plan for ozone, or most recent revision thereof, which has been approved under section 110, or promulgated under section 110(c), or promulgated or approved pursuant to regulations promulgated under section 301(d) and which implements the relevant requirements of the CAA;

[2.4.] CAA—the Clean Air Act, as amended (42 U.S.C., 7401 et seq.);

[3.5.] Cause or contribute to a new violation for a project—

A. To cause or contribute to a new violation of a standard in the area substantially affected by the project or over a region which would otherwise not be in violation of the standard during the future period in question, if the project were not implemented; or

B. To contribute to a new violation in a manner that would increase the frequency or severity of a new violation of a standard in such area;

[4.]/6. Clean data—air quality monitoring data determined by EPA to meet the requirements of 40 *Code of Federal Regulations* (CFR) part 58 that indicate attainment of the national ambient air quality standards;

[5.]/7. Consultation—in the transportation conformity process, one (1) party confers with another identified party, provides all information to that party needed for meaningful input, and considers the views of that party and responds to those views in a timely, substantive written manner prior to any final decision on such action. Such views and written response shall be made part of the record of any decision or action;

[6. *Control strategy implementation plan revision—the implementation plan which contains specific strategies for controlling the emissions of and reducing ambient levels of pollutants in order to satisfy CAA requirements for demonstrations of reasonable further progress and attainment (CAA sections 182(b)(1), 182(c)(2)(A), 182(c)(2)(B), 187(a)(7), 189(a)(1)(B), and 189(b)(1)(A); and sections 192(a) and 192(b), for nitrogen dioxide);*]

8. Control strategy implementation plan revision—the implementation plan which contains specific strategies for controlling the emissions of and reducing ambient levels of pollutants in order to satisfy CAA requirements for demonstrations of reasonable further progress and attainment (including implementation plan revisions submitted to satisfy CAA sections 172(c), 182(b)(1), 182(c)(2)(A), 182(c)(2)(B), 187(a)(7), 187(g), 189(a)(1)(B), 189(b)(1)(A), and 189(d); sections 192(a) and 192(b), for nitrogen dioxide; and any other applicable CAA provision requiring a demonstration of reasonable further progress or attainment);

[7.]/9. Design concept—the type of facility identified by the project, e.g., freeway, expressway, arterial highway, grade-separated highway, reserved right-of-way rail transit, mixed traffic rail transit, exclusive busway, etc.;

[8.]/10. Design scope—the design aspects which will affect the proposed facility's impact on regional emissions, usually as they relate to vehicle or person carrying capacity and control, e.g., number of lanes or tracks to be constructed or added, length of project, signalization, access control including approximate number and location of interchanges, preferential treatment for high-occupancy vehicles, etc.;

11. Donut areas—geographic areas outside a metropolitan planning area boundary, but inside the boundary of a nonattainment or maintenance area that contains any part of a metropolitan area(s). These areas are not isolated rural nonattainment and maintenance areas;

[9.]/12. DOT—the United States Department of Transportation;

[10.]/13. EPA—the Environmental Protection Agency;

[11.]/14. FHWA—the Federal Highway Administration of DOT;

[12.]/15. FHWA/FTA project—for the purpose of this rule, any highway or transit project which is proposed to receive funding assistance and approval through the Federal-Aid Highway program or the Federal mass transit program, or requires Federal Highway Administration (FHWA) or Federal Transit Administration (FTA) approval for some aspect of the project, such as connection to an interstate highway or deviation from applicable design standards on the interstate system;

[13.]/16. Forecast period—with respect to a transportation plan, the period covered by the transportation plan pursuant to 23 CFR part 450;

[14.]/17. FTA—the Federal Transit Administration of DOT;

[15.]/18. Highway project—an undertaking to implement or modify a highway facility or highway-related program. Such an

undertaking consists of all required phases necessary for implementation. For analytical purposes, it must be defined sufficiently to—

A. Connect logical *termini* and be of sufficient length to address environmental matters on a broad scope;

B. Have independent utility or significance, i.e., be usable and be a reasonable expenditure even if no additional transportation improvements in the area are made; and

C. Not restrict consideration of alternatives for other reasonably foreseeable transportation improvements;

[16.]/19. Horizon year—a year for which the transportation plan describes the envisioned transportation system according to section (6) of this rule;

[17.]/20. Hot-spot analysis—an estimation of likely future localized carbon monoxide (CO) and particulate matter (PM₁₀) pollutant concentrations and a comparison of those concentrations to the national ambient air quality standards. Hot-spot analysis assesses impacts on a scale smaller than the entire nonattainment or maintenance area, including, for example, congested roadway intersections and highways or transit terminals, and uses an air quality dispersion model to determine the effects of emissions on air quality;

[18.]/21. Increase the frequency or severity—to cause a location or region to exceed a standard more often or to cause a violation at a greater concentration than previously existed and/or would otherwise exist during the future period in question, if the project were not implemented;

22. Isolated rural nonattainment and maintenance areas—areas that do not contain or are not part of any metropolitan planning area as designated under the transportation planning regulations. Isolated rural areas do not have federally required metropolitan transportation plans or transportation improvement programs (TIPs) and do not have projects that are part of the emissions analysis of any metropolitan planning organization's (MPO's) metropolitan transportation plan or TIP. Projects in such areas are instead included in statewide transportation improvement programs. These areas are not donut areas;

[19.]/23. Lapse—the conformity determination for a transportation plan or transportation improvement program (TIP) has expired, and thus there is no currently conforming transportation plan and TIP;

24. Limited maintenance plan—a maintenance plan that EPA has determined meets EPA's limited maintenance plan policy criteria for a given NAAQS and pollutant. To qualify for a limited maintenance plan, for example, an area must have a design value that is significantly below a given NAAQS, and it must be reasonable to expect that a NAAQS violation will not result from any level of future motor vehicle emissions growth;

[20.]/25. Maintenance area—any geographic region of the United States previously designated nonattainment pursuant to the CAA Amendments of 1990 and subsequently redesignated to attainment subject to the requirement to develop a maintenance plan under section 175A of the CAA, as amended/;/;

[21.]/26. Maintenance plan—an implementation plan under a section 175A of the CAA, as amended;

[22.]/27. Metropolitan planning area—the geographic area in which the metropolitan transportation planning process required by 23 U.S.C. 134 and section 8 of the Federal Transit Act must be carried out;

[23.]/28. Metropolitan planning organization (MPO)—that organization designated as being responsible, together with the state, for conducting the continuing, cooperative, and comprehensive planning process under 23 U.S.C. 134 and 49 U.S.C. 5303. It is the forum for cooperative transportation decision-making. The Mid-America Regional Council is the MPO for the Kansas City metropolitan area and the organization responsible for conducting the planning required under section 174 of the CAA;

[24. Milestone—the meaning given in sections 182(g)(1) and 189(c) of the CAA. A milestone consists of an emissions level and the date on which it is required to be achieved;]

29. Milestone—the meaning given in CAA sections 182(g)(1) and 189(c) for serious and above ozone nonattainment areas and PM₁₀ nonattainment areas, respectively. For all other nonattainment areas, a milestone consists of an emissions level and the date on which that level is to be achieved as required by the applicable CAA provision for reasonable further progress towards attainment;

[25./30. Motor vehicle emissions budget—that portion of the total allowable emissions defined in the submitted or approved control strategy implementation plan revision or maintenance plan for a certain date for the purpose of meeting reasonable further progress milestones or demonstrating attainment or maintenance of the National Ambient Air Quality Standards (NAAQS), for any criteria pollutant or its precursors, allocated to highway and transit vehicle use and emissions. For purposes of meeting the conformity test required under sections *[(16)/(18)]* and/or *[(17)/(19)]* of this rule, the motor vehicle emissions budget in the applicable Missouri State Implementation Plan shall be combined with the motor vehicle emissions budget for the same pollutant in the applicable Kansas State Implementation Plan;

[26./31. National ambient air quality standards (NAAQS)—those standards established pursuant to section 109 of the CAA;

[27./32. NEPA—the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.);

[28./33. NEPA process completion—for the purposes of this rule, with respect to FHWA or FTA, the point at which there is a specific action to make a determination that a project is categorically excluded, to make a Finding of No Significant Impact, or to issue a record of decision on a Final Environmental Impact Statement under NEPA;

[29./34. Nonattainment area—any geographic region of the United States which has been designated as nonattainment under section 107 of the CAA for any pollutant for which a national ambient air quality standard exists;

[30./35. Project—a highway project or transit project;

[31./36. Protective finding—a determination by EPA that a submitted control strategy implementation plan revision contains adopted control measures or written commitments to adopt enforceable control measures that fully satisfy the emissions reductions requirements relevant to the statutory provision for which the implementation plan revision was submitted, such as reasonable further progress or attainment;

[32./37. Recipient of funds designated under Title 23 U.S.C. or the Federal Transit Laws—any agency at any level of state, county, city, or regional government that routinely receives Title 23 U.S.C. or Federal Transit Laws funds to construct FHWA/FTA projects, operate FHWA/FTA projects or equipment, purchase equipment, or undertake other services or operations via contracts or agreements. This definition does not include private landowners or developers, or contractors or entities that are only paid for services or products created by their own employees;

[33./38. Regionally significant project—a transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals, as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum: all principal arterial highway and all fixed guideway transit facilities that offer an alternative to regional highway travel;

[34./39. Safety margin—the amount by which the total projected emissions from all sources of a given pollutant are less than the total emissions that would satisfy the applicable requirement for reasonable further progress, attainment, or maintenance;

[35./40. Standard—a national ambient air quality standard;

[36./41. Statewide transportation improvement program (STIP)—a staged, multi-year, intermodal program of transportation projects which is consistent with the statewide transportation plan and planning processes and metropolitan transportation plans, transportation improvement programs (TIPs) and processes, developed pursuant to 23 CFR part 450;

[37./42. Statewide transportation plan—the official statewide, intermodal transportation plan that is developed through the statewide transportation planning process, pursuant to 23 CFR part 450;

[38./43. Transit—mass transportation by bus, rail, or other conveyance which provides general or special service to the public on a regular and continuing basis. It does not include school buses or charter or sightseeing services;

[39./44. Transit project—an undertaking to implement or modify a transit facility or transit-related program; purchase transit vehicles or equipment; or provide financial assistance for transit operations. It does not include actions that are solely within the jurisdiction of local transit agencies, such as changes in routes, schedules, or fares. It may consist of several phases. For analytical purposes, it must be defined inclusively enough to—

A. Connect logical *termini* and be of sufficient length to address environmental matters on a broad scope;

B. Have independent utility or independent significance, i.e., be a reasonable expenditure even if no additional transportation improvements in the area are made; and

C. Not restrict consideration of alternatives for other reasonably foreseeable transportation improvements;

[40./45. Transportation control measure (TCM)—any measure that is specifically identified and committed to in the applicable implementation plan that is either one (1) of the types listed in section 108 of the CAA, or any other measure for the purpose of reducing emissions or concentrations of air pollutants from transportation sources by reducing vehicle use or changing traffic flow or congestion conditions. Notwithstanding the first sentence of this definition, vehicle technology-based, fuel-based, and maintenance-based measures which control the emissions from vehicles under fixed traffic conditions are not TCMs for the purposes of this rule;

[41./46. Transportation improvement program (TIP)—a staged, multiyear, intermodal program of transportation projects covering a metropolitan planning area which is consistent with the metropolitan transportation plan, and developed pursuant to 23 CFR part 450;

[42./47. Transportation plan—the official intermodal metropolitan transportation plan that is developed through the metropolitan planning process for the metropolitan planning area, developed pursuant to 23 CFR part 450;

[43./48. Transportation project—a highway project or a transit project; and

[44./49. Written commitment—for the purposes of this rule, a written commitment that includes a description of the action to be taken; a schedule for the completion of the action; a demonstration that funding necessary to implement the action has been authorized by the appropriating or authorizing body; and an acknowledgement that the commitment is an enforceable obligation under the applicable implementation plan.

(2) Applicability.

(A) Action Applicability.

1. Except as provided for in subsection (2)(C) of this rule or section *[(23)/(26)]*, conformity determinations are required for—

A. The adoption, acceptance, approval or support of transportation plans and transportation plan amendments developed pursuant to 23 CFR part 450 or 49 CFR part 613 by a MPO or DOT;

B. The adoption, acceptance, approval or support of TIPs and TIP amendments developed pursuant to 23 CFR part 450 or 49 CFR part 613 by a MPO or DOT; and

C. The approval, funding, or implementation of FHWA/FTA projects.

2. Conformity determinations are not required under this rule for individual projects which are not FHWA/FTA projects. However, section ~~/(19)/(21)~~ applies to such projects if they are regionally significant.

(B) Geographic Applicability. The provisions of this rule shall apply in the Clay, Jackson and Platte Counties maintenance area for transportation-related criteria pollutants for which the area has a maintenance plan.

1. The provisions of this rule apply with respect to emissions of the following criteria pollutant: ozone, **carbon monoxide (CO)**, **nitrogen dioxide (NO₂)**, **particles with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM₁₀)**; and **particles with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM_{2.5})**.

2. The provisions of this rule **also** apply with respect to emissions of the following precursor pollutants: *[volatile organic compounds (VOC) and nitrogen oxides (NO_x) in ozone areas.]*

A. Volatile organic compounds (VOC) and nitrogen oxides (NO_x) in ozone areas;

B. NO_x in NO₂ areas; and

C. VOC and/or NO_x in PM₁₀ areas if the EPA regional administrator or the director of the state air agency has made a finding that transportation-related emissions of one (1) or both of these precursors within the nonattainment area are a significant contributor to the PM₁₀ nonattainment problem and has so notified the MPO and DOT, or if applicable implementation plan (or implementation plan submission) establishes an approved (or adequate) budget for such emissions as part of the reasonable further progress, attainment or maintenance strategy.

3. The provisions of this rule apply to PM_{2.5} nonattainment and maintenance areas with respect to PM_{2.5} from re-entrained road dust if the EPA regional administrator or the director of the state air agency has made a finding that re-entrained road dust emissions within the area are a significant contributor to the PM_{2.5} nonattainment problem and has so notified the MPO and DOT, or if the applicable implementation plan (or implementation plan submission) includes re-entrained road dust in the approved (or adequate) budget as part of the reasonable further progress, attainment or maintenance strategy. Re-entrained road dust emissions are produced by travel on paved and unpaved roads (including emissions from anti-skid and deicing materials).

~~/3./4.~~ The provisions of this rule apply to the Clay, Jackson and Platte Counties maintenance area for twenty (20) years from the date EPA approves the area's request under section 107(d) of the CAA for redesignation to attainment, unless the applicable implementation plan specifies that the provisions of this rule shall apply for more than twenty (20) years.

(C) Limitations. In order to receive any FHWA/FTA approval or funding actions, including NEPA approvals, for a project phase subject to this subpart, a currently conforming transportation plan and TIP must be in place at the time of project approval as described in section 93.114, except as provided by section 93.114(b).

1. Projects subject to this rule for which the NEPA process and a conformity determination have been completed by DOT may pro-

ceed toward implementation without further conformity determinations unless more than three (3) years have elapsed since the most recent major step (NEPA process completion; start of final design; acquisition of a significant portion of the right-of-way; or approval of the plans, specifications and estimates) occurred. All phases of such projects which were considered in the conformity determination are also included, if those phases were for the purpose of funding final design, right-of-way acquisition, construction, or any combination of these phases.

2. A new conformity determination for the project will be required if there is a significant change in project design concept and scope, if a supplemental environmental document for air quality purposes is initiated, or if three (3) years have elapsed since the most recent major step to advance the project occurred.

(D) Grace Period For New Nonattainment Areas. For areas or portions of areas which have been continuously designated attainment or not designated for any *[standard]* NAAQS for ozone, CO, PM₁₀, PM_{2.5} or NO₂ since 1990 and are subsequently redesignated to nonattainment or designated nonattainment for any *[standard]* NAAQS for any of these pollutants, the provisions of this rule shall not apply with respect to that *[standard]* NAAQS for twelve (12) months following the effective date of final designation to nonattainment for each *[standard]* NAAQS for such pollutant.

(4) Frequency of Conformity Determinations.

(B) Frequency of Conformity Determinations for Transportation Plans.

1. Each new transportation plan must be demonstrated to conform before the transportation plan is approved by the MPO or accepted by DOT.

2. All transportation plan revisions must be found to conform before the transportation plan revisions are approved by the MPO or accepted by DOT, unless the revision merely adds or deletes exempt projects listed in sections ~~/(23)/(26)~~ and ~~/(24)/(27)~~ and has been made in accordance with the notification provisions of subparagraph (5)(C)1.F. The conformity determination must be based on the transportation plan and the revision taken as a whole.

3. The MPO and DOT must determine the conformity of the transportation plan (including a new regional emissions analysis) no less frequently than every three (3) years. If more than three (3) years elapse after DOT's conformity determination without the MPO and DOT determining conformity of the transportation plan, the existing conformity determination will lapse.

(C) Frequency of Conformity Determinations for Transportation Improvement Programs.

1. A new TIP must be demonstrated to conform before the TIP is approved by the MPO or accepted by DOT.

2. A TIP amendment requires a new conformity determination for the entire TIP before the amendment is approved by the MPO or accepted by DOT, unless the amendment merely adds or deletes exempt projects listed in section ~~/(23)/(26)~~ or section ~~/(24)/(27)~~ and has been made in accordance with the notification provisions of subparagraph (5)(C)1.G.

3. The MPO and DOT must determine the conformity of the TIP (including a new regional emissions analysis) no less frequently than every three (3) years. If more than three (3) years elapse after DOT's conformity determination without the MPO and DOT determining conformity of the TIP, the existing conformity determination will lapse.

/4. After the MPO adopts a new or revised transportation plan, conformity of the TIP must be redetermined by the MPO and DOT within six (6) months from the date of DOT's conformity determination for the transportation plan, unless the new or revised plan merely adds or deletes exempt projects listed in sections (23) and (24) and has been made in

accordance with the notification provisions of subparagraph (5)(C)1.G. Otherwise, the existing conformity determination for the TIP will lapse.]

(D) Projects. FHWA/FTA projects must be found to conform before they are adopted, accepted, approved, or funded. Conformity must be redetermined for any FHWA/FTA project if **one (1) of the following occurs: a significant change in the project's design concept and scope;** three (3) years *[have]* elapse*[d]* since the most recent major step to advance the project; **or initiation of a supplemental environmental document for air quality purposes. Major steps include** *[[NEPA process completion; start of final design; acquisition of a significant portion of the right-of-way; and, construction (including federal [or] approval of [the] plans, specifications and estimates) [occurred].*

(E) Triggers for Transportation Plan and TIP Conformity Determinations. Conformity of existing transportation plans and TIPs must be redetermined within eighteen (18) months of the following, or the existing conformity determination will lapse, and no new project-level conformity determinations may be made until conformity of the transportation plan and TIP has been determined by the MPO and DOT—

[1. November 24, 1993;]

*[2.1. The effective date of EPA's finding that motor vehicle emissions budgets from an initially submitted control strategy implementation plan or maintenance plan are adequate pursuant to subsection *[(16)](18)(E)* and can be used for transportation conformity purposes;*

[3.2. The effective date of EPA approval of a control strategy implementation plan revision or maintenance plan which establishes or revises a motor vehicle emissions budget if that budget has not yet been used in a conformity determination prior to approval; and

[4. EPA approval of an implementation plan revision that adds, deletes, or changes TCMs; and]

*[5.3. The effective date of EPA promulgation of an implementation plan which establishes or revises a motor vehicle emissions budget *[or adds, deletes, or changes TCMs].**

(5) Consultation.

(A) General. Procedures for interagency consultation (federal, state, and local), resolution of conflicts, and public consultation are described in subsections (A) through (E) of this section. Public consultation procedures meet the requirements for public involvement in 23 CFR part 450.

1. The implementation plan revision required shall include procedures for interagency consultation (federal, state, and local), resolution of conflicts, and public consultation as described in subsections (A) through (E) of this section. Public consultation procedures will be developed in accordance with the requirements for public involvement in 23 CFR part 450.

[1.2. MPOs and state departments of transportation will provide reasonable opportunity for consultation with state air agencies, local air quality and transportation agencies, DOT, and EPA, including consultation on the issues described in paragraph (C)1. of this section, before making conformity determinations.

(C) Interagency Consultation Procedures: Specific Processes. Interagency consultation procedures shall also include the following specific processes:

1. An interagency consultation process in accordance with subsection (5)(B) of this rule involving the MPO, the regional transportation policy advisory committee, the regional air quality advisory organization, the state transportation and air quality agencies, EPA, FHWA and FTA shall be undertaken for the following:

A. Evaluating and choosing a model (or models) and associated methods and assumptions to be used in hot-spot analyses and regional emissions analyses;

B. Determining which minor arterials and other transportation projects should be considered "regionally significant" for the purposes of regional emissions analysis (in addition to those functionally classified as principal arterial or higher or fixed guideway systems or extensions that offer an alternative to regional highway travel), and which projects should be considered to have a significant change in design concept and scope from the transportation plan or TIP. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)3. of this rule regarding changes in planning assumptions;

C. Evaluating whether projects otherwise exempted from meeting the requirements of this rule (see sections *[(23)](26)* and *[(24)](27)*) should be treated as non-exempt in cases where potential adverse emissions impacts may exist for any reason. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)2. of this rule in the context of the transportation planning and TIP programming processes;

D. Developing a list of TCMs to be included in the applicable implementation plan. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)2. of this rule in the context of the state air quality implementation plan development process;

E. Making a determination, as required by paragraph (13)(C)1., whether past obstacles to implementation of TCMs which are behind the schedule established in the applicable implementation plan have been identified and are being overcome, and whether state and local agencies with influence over approvals or funding for TCMs are giving maximum priority to approval or funding for TCMs. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)2. of this rule in the context of the transportation planning and TIP programming processes. This process shall also consider whether delays in TCM implementation necessitate revisions to the applicable implementation plan to remove TCMs or substitute TCMs or other emission reduction measures;

F. Notification of transportation plan or TIP revisions or amendments which merely add or delete exempt projects listed in section *[(23)](26)* or section *[(24)](27)*. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)2. of this rule in the context of the transportation planning and TIP programming processes. The MPO shall notify all conformity consulting agencies in writing within seven (7) calendar days after taking action to approve such exempt projects. The notification shall include enough information about the exempt projects for the consulting agencies to determine their agreement or disagreement that the projects are exempt under section *[(23)](26)* or section *[(24)](27)* of this rule;

G. Determining whether the project is included in the regional emissions analysis supporting the current conforming TIP's conformity determination, even if the project is not strictly included in the TIP for purposes of MPO project selection or endorsement, and whether the project's design concept and scope have not changed significantly from those which were included in the regional emissions analysis, or in a manner which would significantly impact use of the facility. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)2. of this rule in the context of the TIP programming process;

H. Determining what forecast of vehicle miles traveled (VMT) to use in establishing or tracking emissions budgets, developing transportation plans, TIPs, or applicable implementation plans, or making conformity determinations. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)3. of this rule regarding planning assumptions;

I. Determining the definition of reasonable professional practice for the purposes of section *[(20)](22)*. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)3. of this rule regarding planning assumptions; *[and]*

J. Determining whether the project sponsor or the MPO has demonstrated that the requirements of section */(16)/(18)* are satisfied without a particular mitigation or control measure, as provided in subsection */(22)/(25)(D)*. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)2. of this rule in the context of the transportation planning and TIP programming processes./;

K. Identifying, as required by subsection (23)(B), projects located at sites in PM₁₀ nonattainment areas which have vehicle and roadway emission and dispersion characteristics which are essentially identical to those at sites which have violations verified by monitoring, and therefore require quantitative PM₁₀ hot-spot analysis; and

L. Choosing conformity tests and methodologies for isolated rural nonattainment and maintenance areas, as required by paragraph (9)(L)2.

2. An interagency consultation process in accordance with subsection (5)(B) of this rule involving the MPO, the regional air quality advisory organization, the regional transportation policy advisory committee and the state air quality and transportation agencies for the following:

A. Evaluating events which will trigger new conformity determinations in addition to those triggering events established in section (4). This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)3. of this rule regarding planning assumptions when there is a significant change in any planning assumption (examples: new regional forecast of population and employment, actual vehicle miles traveled (VMT) estimates significantly different from planning projections, etc.); and

B. Consulting on emissions analysis for transportation activities which cross the borders of the MPOs or nonattainment or maintenance area or air basin. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)2. of this rule.

3. Prior to establishing a metropolitan planning area for transportation planning that does not include the entire nonattainment or maintenance area, the interagency consultation process described in subsection (5)(B) of this rule shall be supplemented by a formal memorandum of agreement, incorporated in the applicable state implementation plan, executed by the MPO and the state air quality and transportation agencies for cooperative planning and analysis. This executed memorandum of agreement shall specify procedures for determining conformity of all regionally significant transportation projects outside the metropolitan planning boundary for transportation planning and within the nonattainment or maintenance area.

A. The interagency consultation process established by the executed memorandum of agreement for such an area shall apply in addition to all other consultation requirements.

B. At a minimum, any memorandum of agreement establishing a state transportation planning area outside of the MPO metropolitan planning area for transportation planning, but within the nonattainment or maintenance area, shall provide for state air quality agency concurrence in conformity determinations for areas outside of the metropolitan planning boundary for transportation planning, but within the nonattainment or maintenance area. Such agreement shall also establish a process involving the MPO and the state transportation agency in cooperative planning and analysis for determining conformity of all projects outside the metropolitan planning area for transportation planning and within the nonattainment or maintenance area in the context of the total regional transportation system that serves the nonattainment or maintenance area.

4. An interagency consultation process shall be undertaken to ensure that plans for construction of regionally significant projects which are not FHWA/FTA projects (including projects for which alternative locations, design concept and scope, or the no-build option are still being considered), including those by recipients of

funds designated under Title 23 U.S.C. or the Federal Transit Laws, are disclosed to the MPO on a regular basis, and to ensure that any changes to those plans are immediately disclosed. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)2. of this rule in the context of the transportation planning and TIP programming processes. At a minimum, the disclosure procedures shall meet the requirements of subparagraph (5)(B)4.A.-C. of this rule.

A. The sponsor of any such regionally significant project, and any agency that becomes aware of any such project through applications for approval, permitting or funding shall disclose such project to the MPO in a timely manner. Such disclosure shall be made not later than the first occasion when any of the following actions is sought: any policy board action necessary for the project to proceed, the issuance of administrative permits for the facility or for construction of the facility, the execution of a contract to design or construct the facility, the execution of any indebtedness for the facility, any final action of a board, commission or administrator authorizing or directing employees to proceed with design, permitting or construction of the project, or the execution of any contract to design or construct or any approval needed for any facility that is dependent on the completion of a regionally significant project. The sponsor of any potential regionally significant project shall disclose to the MPO each project for which alternatives have been identified through the NEPA process, and, in particular, any preferred alternative that may be a regionally significant project. This information shall be provided to the MPO in accordance with the time sequence and procedures established under paragraph (5)(B)2. of this rule for each transportation planning and TIP development process.

B. In the case of any such regionally significant project that has not been disclosed to the MPO and other agencies participating in the consultation process before action is taken to adopt or approve, such regionally significant project shall be deemed not to be included in the regional emissions analysis supporting the currently conforming TIP's conformity determination and not to be consistent with the motor vehicle emissions budget in the applicable implementation plan, for the purposes of section */(19)/(21)*.

C. For the purposes of paragraph (5)(C)4. of this rule, the phrase adopt or approve of a regionally significant project means the first time any action necessary to authorizing a project occurs, such as any policy board action necessary for the project to proceed, the issuance of administrative permits for the facility or for construction of the facility, the execution of a contract to construct the facility, any final action of a board, commission or administrator authorizing or directing employees to proceed with construction of the project, or any written decision or authorization from the MPO that the project may be adopted or approved.

5. This interagency consultation process shall be undertaken in accordance with subsection (5)(B) of this rule involving the MPO and other recipients of funds designated under Title 23 U.S.C. or the Federal Transit Laws for assuming the location and design concept and scope of projects which are disclosed to the MPO as required by paragraph (5)(C)4. of this rule but whose sponsors have not yet decided these features in sufficient detail to perform the regional emissions analysis according to the requirements of section */(20)/(22)*. This process shall be initiated by the MPO and conducted in accordance with paragraph (5)(B)3. of this rule as it relates to planning assumptions.

6. This interagency consultation process outlined in subsection (5)(B) of this rule involves the MPO, the regional transportation policy advisory committee, the regional air quality advisory organization, and the state transportation and air quality agencies shall be undertaken for the design, schedule, and funding of research and data collection efforts and regional transportation model development by the MPO (e.g., household/travel transportation surveys). This process shall be initiated by the MPO and conducted in accordance

with paragraph (5)(B)3. of this rule as it relates to planning assumptions.

7. This process insures providing final documents (including applicable implementation plans and implementation plan revisions) and supporting information to each agency after approval or adoption. This process is applicable to all agencies described in paragraph (A)1. of this section, including federal agencies.

(E) Public Consultation Procedures. Affected agencies making conformity determinations on transportation plans, programs, and projects shall establish a proactive public involvement process. This process will provide opportunity for public review and comment prior to taking formal action on a conformity determination for all transportation plans and TIPs, consistent with the requirements of 23 CFR part 450 including part 450.316(b)(1), 450.322(c), and 450.324(c) as in effect on the date of adoption of this rule. The public shall be assured reasonable access to technical and policy information considered by the agency at the beginning of the public comment period and prior to taking formal action on a conformity determination for all transportation plans and TIPs, consistent with these requirements and those of 23 CFR 450.316(b). In addition, these agencies must specifically respond in writing to all public comments stating that known plans for a regionally significant project which is not receiving FHWA or FTA funding or approval have not been properly reflected in the emissions analysis supporting a proposed conformity finding for a transportation plan or TIP. These agencies shall also provide opportunity for public involvement in conformity determinations for projects where otherwise required by law (for example, NEPA). The opportunity for public involvement provided under this subsection shall include access to information, emissions data, analyses and modeling assumptions used to perform a conformity determination, in accordance with the provisions of paragraph (5)(B)4. of this rule, and the obligation of any such agency to consider and respond to significant comments. No transportation plan, TIP or project may be found to conform unless the determination of conformity has been subject to a public involvement process in accordance with this subsection, without regard to whether the DOT has certified any process under 23 CFR part 450. Any charges imposed for public inspection and copying should be consistent with the fee schedule contained in [49 CFR 7.95] 49 CFR 7.43.

(6) Content of Transportation Plans.

(B) *[Moderate Areas Reclassified to Serious. Ozone nonattainment areas which are reclassified from moderate to serious and have an urbanized population greater than two hundred thousand (>200,000) must meet the requirements of subsection (6)(A) of this rule within two (2) years from the date of reclassification.]* Two (2)-year grace period for transportation plan requirements in certain ozone and CO areas. The requirements of subsection (A) of this section apply to such areas or portions of such areas that have previously not been required to meet these requirements for any existing NAAQS two (2) years from the following:

1. The effective date of EPA's reclassification of an ozone or CO nonattainment area that has an urbanized area population greater than two hundred thousand (>200,000) to serious or above;

2. The official notice by the Census Bureau that determines the urbanized area population of a serious or above or CO nonattainment area to be greater than two hundred thousand (>200,000); or

3. The effective date of EPA's action that classifies a newly designated ozone or CO nonattainment area that has an urbanized area population greater than two hundred thousand (>200,000) as serious or above.

(C) Transportation Plans for Other Areas. Transportation plans for other areas must meet the requirements of subsection (6)(A) of this

rule at least to the extent it has been the previous practice of the MPO to prepare plans which meet those requirements. Otherwise, transportation plans must describe the transportation system envisioned for the future and must be sufficiently described within the transportation plans so that a conformity determination can be made according to the criteria and procedures of sections (9)-(17)(19).

(7) Relationship of Transportation Plan and TIP Conformity with the NEPA Process. The degree of specificity required in the transportation plan and the specific travel network assumed for air quality modeling do not preclude the consideration of alternatives in the NEPA process or other project development studies. Should the NEPA process result in a project with design concept and scope significantly different from that in the transportation plan or TIP, the project must meet the criteria in sections (9)-(17)(19) for projects not from a TIP before NEPA process completion.

(9) Criteria and Procedures for Determining Conformity of Transportation Plans, Programs, and Projects—General.

(A) In order for each transportation plan, program, and FHWA/FTA project to be found to conform, the MPO and DOT must demonstrate that the applicable criteria and procedures in sections (10)-(17)(19) as listed in Table 1 in subsection (9)(B) of this rule are satisfied, and the MPO and DOT must comply with all applicable conformity requirements of implementation plans and this rule and of court orders for the area which pertain specifically to conformity. The criteria for making conformity determinations differ based on the action under review (transportation plans, TIPs, and FHWA/FTA projects), the relevant pollutant(s), and the status of the implementation plan.

(B) *[The following t/*Table 1 *in this section indicates the criteria and procedures in sections (10)-(17)(19) which apply for transportation plans, TIPs, and FHWA/FTA projects. Subsections (C) through (I) of this section explain/s/ when the budget, and/ interim emissions, [reduction tests] and hot-spot tests are required for [ozone nonattainment and maintenance areas] each pollutant and NAAQS. Subsection (J) of this section addresses conformity requirements for areas with approved or adequate limited maintenance plans. Subsection (K) of this section addresses nonattainment and maintenance areas which EPA has determined have insignificant motor vehicle emissions. Subsection (L) of this section addresses isolated rural nonattainment and maintenance areas. Subsection (D) of this section explains when budget and emission reduction tests are required for CO nonattainment and maintenance areas. Table 1 follows:*

Table 1. Conformity Criteria

All Actions at /a/All /t/Times—

Section (10)	Latest planning assumptions
Section (11)	Latest emissions model
Section (12)	Consultation

Transportation Plan—

Subsection (13)(B)	TCMs
Section (16)(18) and/or Section (17)(19)	Emissions budget and/or interim emissions [reduction]

TIP—

Subsection (13)(C)	TCMs
Section (16)(18) and/or Section (17)(19)	Emissions budget and/or interim emissions [reduction]

Project (From a Conforming Plan and TIP)—

Section (14)	Currently conforming plan and TIP
Section (15)	Project from a conforming plan and TIP
Section (16)	CO and PM ₁₀ hot spots
Section (17)	PM ₁₀ and PM _{2.5} control measures

Project (Not From a Conforming Plan and TIP)—

Subsection (13)(D)	TCMs
Section (14)	Currently conforming plan and TIP
Section (16)	CO and PM ₁₀ hot spots
Section (17)	PM ₁₀ and PM _{2.5} Control Measures
Section [(16)/(18) and/or Section [(17)/(19)]	Emissions budget and/or interim emissions [reduction]

(C) One (1)-hour Ozone NAAQS Nonattainment and Maintenance Areas. This subsection applies when an area is nonattainment or maintenance for the one (1)-hour ozone NAAQS (i.e., until the effective date of any revocation of the one (1)-hour ozone NAAQS for an area). In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in ozone nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions [reduction] tests are satisfied as described in the following:

1. In all one (1)-hour ozone nonattainment and maintenance areas the budget test must be satisfied as required by section [(16)/(18)] for conformity determinations made on or after—

A. [Forty-five (45) days after a control strategy implementation plan revision or maintenance plan has been submitted to EPA, unless EPA has declared the motor vehicle emissions budget inadequate for transportation conformity purposes; or] The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan for the one (1)-hour ozone NAAQS is adequate for transportation conformity purposes;

B. [After EPA has declared that the motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;] The publication date of EPA's approval of such a budget in the Federal Register; or

C. The effective date of EPA's approval of such a budget in the Federal Register, if such approval is completed through direct final rulemaking;

2. In ozone nonattainment areas that are required to submit a control strategy implementation plan revision for the one (1)-hour ozone NAAQS (usually moderate and above areas), the interim emissions [reduction] tests must be satisfied as required by section [(17)/(19)] for conformity determinations made—/when there is no approved motor vehicle emissions budget from an applicable implementation plan for the one (1)-hour ozone NAAQS and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan for the one (1)-hour ozone NAAQS;

[A. During the first forty-five (45) days after a control strategy implementation plan revision or maintenance plan has been submitted to EPA, unless EPA has declared a motor vehicle emissions budget adequate for transportation conformity purposes; or

B. If EPA has declared the motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan inadequate for transportation conformity purposes, and there is no previously established motor vehicle emissions budget in the approved implementation plan or a previously submitted control strategy implementation plan revision or maintenance plan;]

3. An ozone nonattainment area must satisfy the interim emissions [reduction] test for NO_x, as required by section [(17)/(19)], if the implementation plan or plan submission that is applicable for the purposes of conformity determinations is a fifteen percent (15%) plan or Phase I attainment demonstration that does not include a motor vehicle emissions budget for NO_x. The implementation plan for the one (1)-hour ozone NAAQS will be considered to establish a motor vehicle emissions budget for NO_x if the implementation plan or plan submission contains an explicit NO_x motor vehicle emissions budget that is intended to act as a ceiling on future NO_x emissions, and the NO_x motor vehicle emissions budget is a net reduction from NO_x emissions levels in 1990;

4. Ozone nonattainment areas that have not submitted a maintenance plan and that are not required to submit a control strategy implementation plan revision for the one (1)-hour ozone NAAQS (usually marginal and below areas) must satisfy one (1) of the following requirements:/—

A. The interim emissions [reduction] tests required by section [(17)/(19)]; or

B. The state shall submit to EPA an implementation plan revision for the one (1)-hour NAAQS that contains motor vehicle emissions budget(s) and [an] a reasonable further progress or attainment demonstration, and the budget test required by section [(16)/(18)] must be satisfied using the [submitted] adequate or approved motor vehicle emissions budget(s) (as described in paragraph (C)1. of this section); and

5. Notwithstanding paragraphs (C)1. and (C)2. of this section, moderate and above ozone nonattainment areas with three (3) years of clean data for the one (1)-hour ozone NAAQS that have not submitted a maintenance plan and that EPA has determined are not subject to the Clean Air Act reasonable further progress and attainment demonstration requirements for the one (1)-hour ozone NAAQS must satisfy one (1) of the following requirements:/—

A. The interim emissions [reduction] tests as required by section [(17)/(19)];

B. The budget test as required by section [(16)/(18)], using the adequate or approved motor vehicle emissions budgets in the submitted or applicable control strategy implementation plan for the one (1)-hour ozone NAAQS (subject to the timing requirements of paragraph (C)1. of this section); or

C. The budget test as required by section [(16)/(18)], using the motor vehicle emissions of ozone precursors in the most recent year of clean data as motor vehicle emissions budgets, if such budgets are established by the EPA rulemaking that determines that the area has clean data for the one (1)-hour ozone NAAQS.

(D) Eight (8)-hour ozone NAAQS nonattainment and maintenance areas without motor vehicle emissions budgets for the one (1)-hour ozone NAAQS for any portion of the eight (8)-hour nonattainment area. This subsection applies to areas that were never designated nonattainment for the one (1)-hour ozone NAAQS and areas that were designated nonattainment for the one (1)-hour ozone NAAQS but that never submitted a control strategy SIP or maintenance plan with approved or adequate motor vehicle emissions budgets. This subsection applies one (1) year after the effective date of EPA's nonattainment designation for the eight (8)-hour ozone NAAQS for an area, according to subsection (2)(D). In addition to the criteria listed in Table 1 in

subsection (B) of this section that are required to be satisfied at all times, in such eight (8)-hour ozone nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions tests are satisfied as described in the following:

1. In such eight (8)-hour ozone nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made on or after—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan for the eight (8)-hour ozone NAAQS is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

2. In ozone nonattainment areas that are required to submit a control strategy implementation plan revision for the eight (8)-hour ozone NAAQS (usually moderate and above and certain Clean Air Act, part D, subpart 1 areas), the interim emissions tests must be satisfied as required by section (19) for conformity determinations made when there is no approved motor vehicle emissions budget from an applicable implementation plan for the eight (8)-hour ozone NAAQS and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan for the eight (8)-hour ozone NAAQS.

3. Such an eight (8)-hour ozone nonattainment area must satisfy the interim emissions test for NO_x , as required by section (19), if the implementation plan or plan submission that is applicable for the purposes of conformity determinations is a fifteen percent (15%) plan or other control strategy SIP that addresses reasonable further progress that does not include a motor vehicle emissions budget for NO_x . The implementation plan for the eight (8)-hour ozone NAAQS will be considered to establish a motor vehicle emissions budget for NO_x if the implementation plan submission contains an explicit NO_x motor vehicle emissions budget that is intended to act as a ceiling on future NO_x emissions, and the NO_x motor vehicle emissions budget is a net reduction from NO_x emissions levels in 2002.

4. Ozone nonattainment areas that have not submitted a maintenance plan and that are not required to submit a control strategy implementation plan revision for the eight (8)-hour ozone NAAQS (usually marginal and certain Clean Air Act, part D, subpart 1 areas) must satisfy one (1) of the following requirements—

A. The interim emissions tests required by section (19); or

B. The state shall submit to EPA an implementation plan revision for the eight (8)-hour ozone NAAQS that contains motor vehicle emissions budget(s) and a reasonable further progress or attainment demonstration, and the budget test required by section (18) must be satisfied using the adequate or approved motor vehicle emissions budget(s) (as described in paragraph (D)1. of this section).

5. Notwithstanding paragraphs (D)1. and (D)2. of this section, ozone nonattainment areas with three (3) years of clean data for the eight (8)-hour ozone NAAQS that have not submitted a maintenance plan and that EPA has determined are not subject to the Clean Air Act reasonable further progress and attainment demonstration requirements for the eight (8)-hour ozone NAAQS must satisfy one (1) of the following requirements—

A. The interim emissions tests as required by section (19);

B. The budget test as required by section (18), using the adequate or approved motor vehicle emissions budgets in the submitted or applicable control strategy implementation plan for the eight (8)-hour ozone NAAQS (subject to the timing requirements of paragraph (D)1. of this section); or

C. The budget test as required by section (18), using the motor vehicle emissions of ozone precursors in the most recent year of clean data as motor vehicle emissions, if such budgets are established by the EPA rulemaking that determines that the area has clean data for the eight (8)-hour ozone NAAQS.

(E) Eight (8)-hour ozone NAAQS nonattainment and maintenance areas with motor vehicle emissions budgets for the one (1)-hour ozone NAAQS that cover all or a portion of the eight (8)-hour nonattainment area. This provision applies one (1) year after the effective date of EPA's nonattainment designation for the eight (8)-hour ozone NAAQS for an area, according to subsection (2)(D). In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in such eight (8)-hour ozone nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions tests are satisfied as described in the following:

1. In such eight (8)-hour ozone nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made on or after—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan for the eight (8)-hour ozone NAAQS is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

2. Prior to paragraph (E)1. of this section applying, the following test(s) must be satisfied, subject to the exception in subparagraph (E)2.E.—

A. If the eight (8)-hour ozone nonattainment area covers the same geographic area as the one (1)-hour ozone nonattainment or maintenance area(s), the budget test as required by section (18) using the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission;

B. If the eight (8)-hour ozone nonattainment area covers a smaller geographic area within the one (1)-hour ozone nonattainment or maintenance area(s), the budget test as required by section (18) for either—

(I) The eight (8)-hour nonattainment area using corresponding portion(s) of the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission where such portion(s) can reasonably be identified through the interagency consultation process required by section (5); or

(II) The one (1)-hour nonattainment area using the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission. If additional emissions reductions are necessary to meet the budget test for the eight (8)-hour ozone NAAQS in such cases, these emissions reductions must come from within the eight (8)-hour nonattainment area;

C. If the eight (8)-hour ozone nonattainment area covers a larger geographic area and encompasses the entire one (1)-hour ozone nonattainment or maintenance area(s)—

(I) The budget test as required by section (18) for the portion of the eight (8)-hour ozone nonattainment area covered by the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission; and

(II) The interim emissions tests as required by section (19) for either—the portion of the eight (8)-hour ozone nonattainment area not covered by the approved or adequate budgets in the one (1)-hour ozone implementation plan, the entire eight (8)-hour ozone nonattainment area, or the entire portion of the eight (8)-hour ozone nonattainment area within an individual state, in the case where separate one (1)-hour SIP budgets are established for each state of a multi-state one (1)-hour nonattainment or maintenance area;

D. If the eight (8)-hour ozone nonattainment area partially covers a one (1)-hour ozone nonattainment or maintenance area(s)—

(I) The budget test as required by section (18) for the portion of the eight (8)-hour ozone nonattainment area covered by the corresponding portion of the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission where they can be reasonably identified through the interagency consultation process required by section (5); and

(II) The interim emissions tests as required by section (19), when applicable, for either—the portion of the eight (8)-hour ozone nonattainment area not covered by the approved or adequate budgets in the one (1)-hour ozone implementation plan, the entire eight (8)-hour ozone nonattainment area, or the entire portion of the eight (8)-hour ozone nonattainment area within an individual state, in the case where separate one (1)-hour SIP budgets are established for each state in a multi-state one (1)-hour nonattainment or maintenance area.

E. Notwithstanding subparagraphs (E)2.A., B., C., or D. of this section, the interim emissions tests as required by section (19), where the budget test using the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan(s) or implementation plan submission(s) for the relevant area or portion thereof is not the appropriate test and the interim emissions tests are more appropriate to ensure that the transportation plan, TIP, or project not from a conforming plan and TIP will not create new violations, worsen existing violations, or delay timely attainment of the eight (8)-hour ozone standard, as determined through the interagency consultation process required by section (5).

3. Such an eight (8)-hour ozone nonattainment area must satisfy the interim emissions test for NO_x, as required by section (19), if the only implementation plan or plan submission that is applicable for the purposes of conformity determinations is a fifteen percent (15%) plan or other control strategy SIP that addresses reasonable further progress that does not include a motor vehicle emissions budget for NO_x. The implementation plan for the eight (8)-hour ozone NAAQS will be considered to establish a motor vehicle emissions budget for NO_x if the implementation plan or plan submission contains an explicit NO_x motor vehicle emissions budget that is intended to act as a ceiling on future NO_x emissions, and the NO_x motor vehicle emissions budget is a net reduction from NO_x emissions levels in 2002. Prior to an adequate or approved NO_x motor vehicle emissions budget in the implementation plan submission for the eight (8)-hour ozone NAAQS, the implementation plan for the one (1)-hour ozone NAAQS will be considered to establish a motor vehicle emissions budget for NO_x if the implementation plan contains an explicit NO_x motor vehicle emissions budget that is intended

to act as a ceiling on future NO_x emissions, and the NO_x motor vehicle emissions budget is a net reduction from NO_x emissions levels in 1990.

4. Notwithstanding paragraphs (E)1. and (E)2. of this section, ozone nonattainment areas with three (3) years of clean data for the eight (8)-hour ozone NAAQS that have not submitted a maintenance plan and that EPA has determined are not subject to the Clean Air Act reasonable further progress and attainment demonstration requirements for the eight (8)-hour ozone NAAQS must satisfy one (1) of the following requirements—

A. The budget test and/or interim emissions tests as required by sections (18) and (19) and as described in paragraph (E)2. of this section;

B. The budget test as required by section (18), using the adequate or approved motor vehicle emissions budgets in the submitted or applicable control strategy implementation plan for the eight (8)-hour ozone NAAQS (subject to the timing requirements of paragraph (E)1. of this section); or

C. The budget test as required by section (18), using the motor vehicle emissions of ozone precursors in the most recent year of clean data as motor vehicle emissions budgets, if such budgets are established by the EPA rulemaking that determines that the area has clean data for the eight (8)-hour ozone NAAQS.

(F) CO nonattainment and maintenance areas. In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in CO nonattainment and maintenance areas conformity determinations must include a demonstration that the hot spot, budget and/or interim emissions tests are satisfied as described in the following:

1. FHWA/FTA projects in CO nonattainment or maintenance areas must satisfy the hot-spot test required by section (16) at all times. Until a CO attainment demonstration or maintenance plan is approved by EPA, FHWA/FTA projects must also satisfy the hot-spot test required by subsection (16)(B).

2. In CO nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made on or after—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

3. Except as provided in paragraph (F)4. of this section, in CO nonattainment areas the interim emissions tests must be satisfied as required by section (19) for conformity determinations made when there is no approved motor vehicle emissions budget from an applicable implementation plan and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan.

4. CO nonattainment areas that have not submitted a maintenance plan and that are not required to submit an attainment demonstration (e.g., moderate CO areas with a design value of 12.7 ppm or less or not classified CO areas) must satisfy one (1) of the following requirements:

A. The interim emissions tests required by section (19); or

B. The state shall submit to EPA an implementation plan revision that contains motor vehicle emissions budget(s) and an attainment demonstration, and the budget test required by section (18) must be satisfied using the adequate or approved motor vehicle emissions budget(s) (as described in paragraph (F)2. of this section).

(G) PM_{10} nonattainment and maintenance areas. In addition to the criteria listed in Table 1 of subsection (B) of this section that are required to be satisfied at all times, in PM_{10} nonattainment and maintenance areas conformity determinations must include a demonstration that the hot-spot, budget and/or interim emissions tests are satisfied as described in the following:

1. FHWA/FTA projects in PM_{10} nonattainment or maintenance areas must satisfy the hot-spot test required by subsection (16)(A).

2. In PM_{10} nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made on or after—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

3. In PM_{10} nonattainment areas the interim emissions tests must be satisfied as required by section (19) for conformity determinations made—

A. If there is no approved motor vehicle emissions budget from an applicable implementation plan and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan; or

B. If the submitted implementation plan revision is a demonstration of impracticability under CAA section 189(a)(1)(B)(ii) and does not demonstrate attainment.

(H) NO_2 nonattainment and maintenance areas. In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in NO_2 nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions tests are satisfied as described in the following:

1. In NO_2 nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made on or after—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

2. In NO_2 nonattainment areas the interim emissions tests must be satisfied as required by section (19) for conformity determinations made when there is no approved motor vehicle emissions budget from an applicable implementation plan and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan.

(I) $PM_{2.5}$ nonattainment and maintenance areas. In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in $PM_{2.5}$ nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions tests are satisfied as described in the following:

1. In $PM_{2.5}$ nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made on or after—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

2. In $PM_{2.5}$ nonattainment areas the interim emissions tests must be satisfied as required by section (19) for conformity determinations made if there is no approved motor vehicle emissions budget from an applicable implementation plan and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan.

(J) Areas with limited maintenance plans. Notwithstanding the other subsections of this section, an area is not required to satisfy the regional emissions analysis for section (18) and/or section (19) for a given pollutant and NAAQS, if the area has an adequate or approved limited maintenance plan for such pollutant and NAAQS. A limited maintenance plan would have to demonstrate that it would be unreasonable to expect that such an area would experience enough motor vehicle emissions growth for a NAAQS violation to occur. A conformity determination that meets other applicable criteria in Table 1 of subsection (B) of this section is still required, including the hot-spot requirements for projects in CO and PM_{10} areas.

(K) Areas with insignificant motor vehicle emissions. Notwithstanding the other subsections of this section, an area is not required to satisfy a regional emissions analysis for section (18) and/or section (19) for a given pollutant/precursor and NAAQS, if EPA finds through the adequacy or approval process that a SIP demonstrates that regional motor vehicle emissions are an insignificant contributor to the air quality problem for that pollutant/precursor and NAAQS. The SIP would have to demonstrate that it would be unreasonable to expect that such an area would experience enough motor vehicle emissions growth in that pollutant/precursor for a NAAQS violation to occur. Such a finding would be based on a number of factors, including the percentage of motor vehicle emissions in the context of the total SIP inventory, the current state of air quality as determined by monitoring data for that NAAQS, the absence of SIP motor vehicle control measures, and historical trends and future projections of the growth of motor vehicle emissions. A conformity determination that meets other applicable criteria in Table 1 of subsection (B) of this section is still required, including regional emissions analyses for section (18) and/or section (19) for other pollutants/precursors and NAAQS that apply. Hot-spot requirements for projects in CO and PM_{10} areas in section (16) must also be satisfied, unless EPA determines that the SIP also demonstrates that projects will not create new localized violations and/or increase the severity or number of existing violations of such NAAQS. If EPA subsequently finds that motor vehicle emissions of a given pollutant/precursor are significant, this subsection would no longer apply for future conformity determinations for that pollutant/precursor and NAAQS.

(L) Isolated rural nonattainment and maintenance areas. This subsection applies to any nonattainment or maintenance area (or portion thereof) which does not have a metropolitan transportation plan or TIP and whose projects are not part of the emissions analysis of any MPO's metropolitan transportation plan or TIP. This subsection does not apply to "donut" areas which are out-

side the metropolitan planning boundary and inside the nonattainment/maintenance area boundary.

1. FHWA/FTA projects in all isolated rural nonattainment and maintenance areas must satisfy the requirements of sections (10), (11), (12), (16), and (17) and subsection (13)(D). Until EPA approves the control strategy implementation plan or maintenance plan for a rural CO nonattainment or maintenance area, FHWA/FTA projects must also satisfy the requirements of subsection (16)(B) ("Localized CO and PM₁₀ violations (hot spots)").

2. Isolated rural nonattainment and maintenance areas are subject to the budget and/or interim emissions tests as described in subsections (C) through (K) of this section, with the following modifications—

A. When the requirements of sections (18) and (19) apply to isolated rural nonattainment and maintenance areas, references to "transportation plan" or "TIP" should be taken to mean those projects in the statewide transportation plan or statewide TIP which are in the rural nonattainment or maintenance area.

B. In isolated rural nonattainment and maintenance areas that are subject to section (18), FHWA/FTA projects must be consistent with motor vehicle emissions budget(s) for the years in the time frame of the attainment demonstration or maintenance plan. For years after the attainment year (if a maintenance plan has not been submitted) or after the last year of the maintenance plan, FHWA/FTA projects must satisfy one (1) of the following requirements—

(I) Section (18);

(II) Section (19) (including regional emissions analysis for NO_x in all ozone nonattainment and maintenance areas, notwithstanding paragraph (19)(F)2.; or

(III) As demonstrated by the air quality dispersion model or other air quality modeling technique used in the attainment demonstration or maintenance plan, the FHWA/FTA project, in combination with all other regionally significant projects expected in the area in the time frame of the statewide transportation plan, must not cause or contribute to any new violation of any standard in any areas; increase the frequency or severity of any existing violation of any standard in any area; or delay timely attainment of any standard or any required interim emission reductions or other milestones in any area. Control measures assumed in the analysis must be enforceable.

C. The choice of requirements in subparagraph (L)2.B. of this section and the methodology used to meet the requirements of part (L)2.B.III. of this section must be determined through the interagency consultation process required in subparagraph (5)(C)1.G. through which the relevant recipients of Title 23 U.S.C. or Federal Transit Laws funds, the local air quality agency, the state air quality agency, and the state Department of Transportation should reach consensus about the option and methodology selected. EPA and DOT must be consulted through this process as well. In the event of unresolved disputes, conflicts may be escalated to the governor consistent with the procedure in subsection (5)(D), which applies for any state air agency comments on a conformity determination.

(10) Criteria and Procedures—Latest Planning Assumptions.

(A) *[The conformity determination, with respect to all other applicable criteria in sections (11)–(17), must be based upon the most recent planning assumptions in force at the time of the conformity determination. The conformity determination must satisfy the requirements of subsections (10)(B)–(F) of this rule.]* Except as provided in this paragraph, the conformity determination, with respect to all other applicable criteria in sections (11)–(19), must be based upon the most

recent planning assumptions in force at the time the conformity analysis begins. The conformity determination must satisfy the requirements of subsections (10)(B)–(F) of this rule using the planning assumptions available at the time the conformity analysis begins as determined through the interagency consultation process required in section (5). The "time the conformity analysis begins" for a transportation plan or TIP determination is the point at which the MPO or other designated agency begins to model the impact of the proposed transportation plan or TIP on travel and/or emissions. New data that becomes available after an analysis begins is required to be used in the conformity determination only if a significant delay in the analysis has occurred, as determined through interagency consultation.

(15) Criteria and Procedures—Projects From a Plan and TIP.

(C) A project is considered to be from a conforming program if the following conditions are met:

1. The project is included in the conforming TIP and the design concept and scope of the project were adequate at the time of the TIP conformity determination to determine its contribution to the TIP's regional emissions, and the project design concept and scope have not changed significantly from those which were described in the TIP; and

2. If the TIP describes a project design concept and scope which includes project-level emissions mitigation or control measures, written commitments to implement such measures must be obtained from the project sponsor and/or operator as required by subsection (22)(25)(A) in order for the project to be considered from a conforming program. Any change in these mitigation or control measures that would significantly reduce their effectiveness constitutes a change in the design concept and scope of the project.

(16) Criteria and Procedures—Localized CO and PM₁₀ Violations (Hot Spots).

(A) This subsection applies at all times. The FHWA/FTA project must not cause or contribute to any new localized CO or PM₁₀ violations or increase the frequency or severity of any existing CO or PM₁₀ violations in CO and PM₁₀ nonattainment and maintenance areas. This criterion is satisfied if it is demonstrated that during the time frame of the transportation plan (or regional emissions analysis) no new local violations will be created and the severity or number of existing violations will not be increased as a result of the project. The demonstration must be performed according to the consultation requirements of subparagraph (5)(C)1.A. and the methodology requirements of section (23).

(B) This subsection applies for CO nonattainment areas as described in paragraph (9)(D)1. Each FHWA/FTA project must eliminate or reduce the severity and number of localized CO violations in the area substantially affected by the project (in CO nonattainment areas). This criteria is satisfied with respect to existing localized CO violations if it is demonstrated that during the time frame of the transportation plan (or regional emissions analysis) existing localized CO violations will be eliminated or reduced in severity and number as a result of the project. The demonstration must be performed according to the consultation requirements of subparagraph (5)(C)1.A. and the methodology requirements of section (23).

(17) Criteria and Procedures—Compliance with PM₁₀ and PM_{2.5} Control Measures. The FHWA/FTA project must comply with any PM₁₀ and PM_{2.5} control measures in the applicable implementation plan. This criterion is satisfied if the project-level conformity determination contains a written commitment from the project sponsor to include in the final plans, specifications, and

estimates for the project those control measures (for the purpose of limiting PM₁₀ and PM_{2.5} emissions from the construction activities and/or normal use and operation associated with the project) that are contained in the applicable implementation plan.

[(16)](18) Criteria and Procedures Motor Vehicle Emissions Budget.

(A) The transportation plan, TIP, and project not from a conforming transportation plan and TIP must be consistent with the motor vehicle emissions budget(s) in the applicable implementation plan (or implementation plan submission). This criterion applies as described in subsections (9)(C) **through (L)**. This criterion is satisfied if it is demonstrated that emissions of the pollutants or pollutant precursors described in subsection (C) of this section are less than or equal to the motor vehicle emission budget(s) established in the applicable implementation plan or implementation plan submission.

(B) Consistency with the motor vehicle emissions budget(s) must be demonstrated for each year for which the applicable (and/or submitted) implementation plan specifically establishes motor vehicle emissions budget(s), **for the attainment year (if it is within the time frame of the transportation plan)** for the last year of the transportation plan's forecast period, and for any intermediate years as necessary so that the years for which consistency is demonstrated are no more than ten (10) years apart, as follows:

1. Until a maintenance plan is submitted—

A. Emissions in each year (such as milestone years and the attainment year) for which the control strategy implementation plan revision establishes motor vehicle emissions budget(s) must be less than or equal to that year's motor vehicle emissions budget(s); and

B. Emissions in years for which no motor vehicle emissions budget(s) are specifically established must be less than or equal to the motor vehicle emissions budget(s) established for the most recent prior year. For example, emissions in years after the attainment year for which the implementation plan does not establish a budget must be less than or equal to the motor vehicle emissions budget(s) for the attainment year.

2. When a maintenance plan has been submitted—

A. Emissions must be less than or equal to the motor vehicle emissions budget(s) established for the last year of the maintenance plan, and for any other years for which the maintenance plan establishes motor vehicle emissions budgets. If the maintenance plan does not establish motor vehicle emissions budgets for any years other than the last year of the maintenance plan, the demonstration of consistency with the motor vehicle emissions budget(s) must be accompanied by a qualitative finding that there are no factors which would cause or contribute to a new violation or exacerbate an existing violation in the years before the last year of the maintenance plan. The interagency consultation process required by section (5) shall determine what must be considered in order to make such a finding;

B. For years after the last year of the maintenance plan, emissions must be less than or equal to the maintenance plan's motor vehicle emissions budget(s) for the last year of the maintenance plan; *and*

C. If an approved **and/or submitted** control strategy implementation plan has established motor vehicle emissions budgets for years in the time frame of the transportation plan, emissions in these years must be less than or equal to the control strategy implementation plan's motor vehicle emissions budget(s) for these years.; **and**

D. For any analysis years before the last year of the maintenance plan, emissions must be less than or equal to the motor vehicle emissions budget(s) established for the most recent prior year.

(D) Consistency with the motor vehicle emissions budget(s) must be demonstrated by including emissions from the entire transportation system, including all regionally significant projects contained in

the transportation plan and all other regionally significant highway and transit projects expected in the nonattainment or maintenance area in the time frame of the transportation plan.

1. Consistency with the motor vehicle emissions budget(s) must be demonstrated with a regional emissions analysis that meets the requirements of section **[(20)](22)** and subparagraph (5)(C)1.A.

2. The regional emissions analysis may be performed for any years in the time frame of the transportation plan provided they are not more than ten (10) years apart and provided the analysis is performed for the attainment year (if it is in the time frame of the transportation plan) and the last year of the plan's forecast period. Emissions in years for which consistency with motor vehicle emissions budgets must be demonstrated, as required in subsection (B) of this section, may be determined by interpolating between the years for which the regional emissions analysis is performed.

(E) Motor Vehicle Emissions Budgets in Submitted Control Strategy Implementation Plan Revisions and Submitted Maintenance Plans.

1. Consistency with the motor vehicle emissions budgets in submitted control strategy implementation plan revisions or maintenance plans must be demonstrated if EPA has declared the motor vehicle emissions budget(s) adequate for transportation conformity purposes, *[or beginning forty-five (45) days after the control strategy implementation plan revision or maintenance plan has been submitted (unless EPA has declared the motor vehicle emissions budget(s) inadequate for transportation conformity purposes). However, submitted implementation plans do not supercede the motor vehicle emissions budgets in approved implementation plans for the period of years addressed by the approved implementation plan.] and the adequacy finding is effective. However, motor vehicle emissions budgets in submitted implementation plans do not supercede the motor vehicle emissions budgets in approved implementation plans for the same Clean Air Act requirement and the period of years addressed by the previously approved implementation plan, unless EPA specifies otherwise in its approval of a SIP.*

2. If EPA has **not** declared an implementation plan submission's motor vehicle emissions budget(s) *[inadequate]* **adequate** for transportation conformity purposes, the *[inadequate]* budget(s) shall not be used to satisfy the requirements of this section. Consistency with the previously established motor vehicle emissions budget(s) must be demonstrated. If there are no previous approved implementation plans or implementation plan submissions with **adequate** motor vehicle emissions budgets, the **interim** emissions *[reduction]* tests required by section **[(17)](19)** must be satisfied.

3. If EPA declares an implementation plan submission's motor vehicle emissions budget(s) inadequate for transportation conformity purposes *[more than forty-five (45) days after its submission to EPA]* **after EPA had previously found the budget(s) adequate**, and conformity of a transportation plan or TIP has already been determined by DOT using the budget(s), the conformity determination will remain valid. Projects included in that transportation plan or TIP could still satisfy sections (14) and (15), which require a currently conforming transportation plan and TIP to be in place at the time of a project's conformity determination and that projects come from a conforming transportation plan and TIP.

4. EPA will not find a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan to be adequate for transportation conformity purposes unless the following minimum criteria are satisfied:

A. The submitted control strategy implementation plan revision or maintenance plan was endorsed by the governor (or his or her designee) and was subject to a state public hearing;

B. Before the control strategy implementation plan or maintenance plan was submitted to EPA, consultation among federal,

state, and local agencies occurred; full implementation plan documentation was provided to EPA; and EPA's stated concerns, if any, were addressed;

C. The motor vehicle emissions budget(s) is clearly identified and precisely quantified;

D. The motor vehicle emissions budget(s), when considered together with all other emissions sources, is consistent with applicable requirements for reasonable further progress, attainment, or maintenance (whichever is relevant to the given implementation plan submission);

E. The motor vehicle emissions budget(s) is consistent with and clearly related to the emissions inventory and the control measures in the submitted control strategy implementation plan revision or maintenance plan; and

F. Revisions to previously submitted control strategy implementation plans or maintenance plans explain and document any changes to previously submitted budgets and control measures; impacts on point and area source emissions; any changes to established safety margins (see section (1) for definition); and reasons for the changes (including the basis for any changes related to emission factors or estimates of vehicle miles traveled).

5. Before determining the adequacy of a submitted motor vehicle emissions budget, EPA will review the state's compilation of public comments and response to comments that are required to be submitted with any implementation plan. EPA will document its consideration of such comments and responses in a letter to the state indicating the adequacy of the submitted motor vehicle emissions budget.

6. When the motor vehicle emissions budget(s) used to satisfy the requirements of this section are established by an implementation plan submittal that has not yet been approved or disapproved by EPA, the MPO and DOT's conformity determinations will be deemed to be a statement that the MPO and DOT are not aware of any information that would indicate that emissions consistent with the motor vehicle emissions budget will cause or contribute to any new violation of any standard; increase the frequency or severity of any existing violation of any standard; or delay timely attainment of any standard or any required interim emission reductions or other milestones.

(F) Adequacy review process for implementation plan submissions. EPA will use the procedure listed in paragraph (F)1. or (F)2. of this section to review the adequacy of an implementation plan submission—

1. When EPA reviews the adequacy of an implementation plan submission prior to EPA's final action on the implementation plan—

A. EPA will notify the public through EPA's website when EPA receives an implementation plan submission that will be reviewed for adequacy;

B. The public will have a minimum of thirty (30) days to comment on the adequacy of the implementation plan submission. If the complete implementation plan is not accessible electronically through the Internet and a copy is requested within fifteen (15) days of the date of the website notice, the comment period will be extended for thirty (30) days from the date that a copy of the implementation plan is mailed;

C. After the public comment period closes, EPA will inform the state in writing whether EPA has found the submission adequate or inadequate for use in transportation conformity, including response to any comments submitted directly and review of comments submitted through the state process, or EPA will include the determination of adequacy or inadequacy in a proposed or final action approving or disapproving the implementation plan under subparagraph (F)2.C. of this section.

D. EPA will establish a *Federal Register* notice to inform the public of EPA's finding. If EPA finds the submission adequate, the effective date of this finding will be fifteen (15) days

from the date the notice is published as established in the *Federal Register* notice, unless EPA is taking a final approval action on the SIP as described in subparagraph (F)2.C. of this section.

E. EPA will announce whether the implementation plan submission is adequate or inadequate for use in transportation conformity on EPA's website. The website will also include EPA's response to comments if any comments were received during the public comment period.

F. If after EPA has found a submission adequate, EPA has cause to reconsider this finding, EPA will repeat actions described in subparagraphs (F)1.A. through E. or paragraph (F)2. of this section unless EPA determines that there is no need for additional public comment given the deficiencies of the implementation plan submission. In all cases where EPA reverses its previous finding to a finding of inadequacy under paragraph (F)1. of this section, such a finding will become effective immediately upon the date of EPA's letter to the state.

G. If after EPA has found a submission inadequate, EPA has cause to reconsider the adequacy of that budget, EPA will repeat actions described in subparagraphs (F)1.A. through E. or paragraph (F)2. of this section.

2. When EPA reviews the adequacy of an implementation plan submission simultaneously with EPA's approval or disapproval of the implementation plan—

A. EPA's *Federal Register* notice of proposed or direct final rulemaking will serve to notify the public that EPA will be reviewing the implementation plan submission for adequacy.

B. The publication of the notice of proposed rulemaking will start a public comment period of at least thirty (30) days.

C. EPA will indicate whether the implementation plan submission is adequate and thus can be used for conformity either in EPA's final rulemaking or through the process described in subparagraphs (F)1.C. through E. of this section. If EPA makes an adequacy finding through a final rulemaking that approves the implementation plan submission, such a finding will become effective upon the publication of EPA's approval in the *Federal Register*, or upon the effective date of EPA's approval if such action is conducted through direct final rulemaking. EPA will respond to comments received directly and review comments submitted through the state process and include the response to comments in the applicable docket.

[(17)](19) Criteria and Procedures—Interim Emissions [Reductions] in Areas without Motor Vehicle Emissions Budgets.

(A) The transportation plan, TIP, and project not from a conforming transportation plan and TIP must *[contribute to emissions reductions]* satisfy the interim emissions test(s) as described in subsections (9)(C) through (L). This criterion applies *[as described in subsection (9)(C). It applies]* to the net effect of the action (transportation plan, TIP, or project not from a conforming transportation plan and TIP) on motor vehicle emissions from the entire transportation system.

[(B) This criterion may be met in moderate and above ozone nonattainment areas that are subject to the reasonable further progress requirements of CAA section 182(b)(1) and in moderate with design value greater than 12.7 ppm and serious CO nonattainment areas if a regional emissions analysis that satisfies the requirements of section (20) and subsections (E) through (H) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (D) of this section—

1. The emissions predicted in the "Action" scenario are less than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; and

2. The emissions predicted in the "Action" scenario are lower than 1990 emissions by any nonzero amount.]

(B) Ozone Areas. The requirements of this paragraph apply to all one (1)-hour ozone and eight (8)-hour ozone NAAQS areas, except for certain requirements as indicated. This criterion may be met—

1. In moderate and above ozone nonattainment areas that are subject to the reasonable further progress requirements of CAA section 182(b)(1) if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) through (J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (F) of this section—

A. The emissions predicted in the "Action" scenario are less than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; and

B. The emissions predicted in the "Action" scenario are lower than—

(I) 1990 emissions by any nonzero amount, in areas for the one (1)-hour ozone NAAQS as described in subsection (9)(C); or

(II) 2002 emissions by any nonzero amount, in areas for the eight (8)-hour ozone NAAQS as described in subsections (9)(D) and (E).

2. In marginal and below ozone nonattainment areas and other ozone nonattainment areas that are not subject to the reasonable further progress requirements of CAA section 182(b)(1) if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) through (J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (F) of this section—

A. The emissions predicted in the "Action" scenario are not greater than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; or

B. The emissions predicted in the "Action" scenario are not greater than—

(I) 1990 emissions, in areas for the one (1)-hour ozone NAAQS as described in subsection (9)(C); or

(II) 2002 emissions, in areas for the eight (8)-hour ozone NAAQS as described in subsections (9)(D) and (E).

(C) CO Areas. This criterion may be met—

1. In moderate areas with design value greater than 12.7 ppm and serious CO nonattainment areas that are subject to CAA section 187(a)(7) if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) through (J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (F) of this section—

A. The emissions predicted in the "Action" scenario are less than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; and

B. The emissions predicted in the "Action" scenario are lower than 1990 emissions by any nonzero amount.

2. In moderate areas with design value less than 12.7 ppm and not classified CO nonattainment areas if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) through (J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (F) of this section—

A. The emissions predicted in the "Action" scenario are not greater than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; or

B. The emissions predicted in the "Action" scenario are not greater than 1990 emissions.

[(C)](D) PM₁₀ and NO₂ Areas. This criterion may be met in PM₁₀ and NO₂ nonattainment areas[; marginal and below ozone nonattainment areas and other ozone nonattainment areas that are not subject to the reasonable further progress requirements of CAA section 182(b)(1); and moderate with design value less than 12.7 ppm and below CO nonattainment areas if] a regional emissions analysis that satisfies the requirements of section [(20)](22) and subsections [(E)](G) and [(F)](J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection [(D)](F) of this section, one (1) of the following requirements is met[:—

1. The emissions predicted in the "Action" scenario are [less] not greater than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; or

2. The emissions predicted in the "Action" scenario are not greater than baseline emissions. Baseline emissions are those estimated to have occurred during calendar year 1990, unless a conformity plan defines the baseline emissions for a PM₁₀ area to be those occurring in a different calendar year for which a baseline emissions inventory was developed for the purpose of developing a control strategy implementation plan.

(E) PM_{2.5} Areas. This criterion may be met in PM_{2.5} nonattainment areas if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) and (J) of this section demonstrates that for each analysis year and for each of the pollutants described in paragraph (F) of this section, one (1) of the following requirements is met—

1. The emissions predicted in the "Action" scenario are not greater than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; or

2. The emissions predicted in the "Action" scenario are not greater than 2002 emissions.

[(D)](F) Pollutants. The regional emissions analysis must be performed for the following pollutants:

1. VOC in ozone areas;

2. NO_x in ozone areas, unless the EPA administrator determines that additional reductions of NO_x would not contribute to attainment;

3. CO in CO areas;

4. PM₁₀ in PM₁₀ areas;

5. [Transportation-related precursors of PM₁₀ in PM₁₀ nonattainment and maintenance areas] VOC and/or NO_x in PM₁₀ areas if the EPA regional administrator or the director of the state air agency has made a finding that one or both of such precursor emissions from within the area are a significant contributor to the PM₁₀ nonattainment problem and has so notified the MPO and DOT; [and]

6. NO_x in NO₂ areas[.];

7. PM_{2.5} in PM_{2.5} areas; and

8. Re-entrained road dust in PM_{2.5} areas only if the EPA regional administrator or the director of the state air agency has made a finding that emissions from re-entrained road dust within the area are a significant contributor to the PM_{2.5} nonattainment problem and has so notified the MPO and DOT.

[(E)](G) Analysis Years.

1. The regional emissions analysis must be performed for analysis years that are no more than ten (10) years apart. The first analysis year must be no more than five (5) years beyond the year in which

the conformity determination is being made. The last year of transportation plan's forecast period must also be an analysis year.

2. For areas using subparagraphs (B)2.A., (C)2.A. and paragraphs (D)1., and (E)1. of this section, a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) and (J) of this section would not be required for analysis years in which the transportation projects and planning assumption in the "Action" and "Baseline" scenarios are exactly the same. In such a case, subsection (A) of this section can be satisfied by documenting that the transportation projects and planning assumptions in both scenarios are exactly the same, and consequently, the emissions predicted in the "Action" scenario are not greater than the emissions predicted in the "Baseline" scenario for such analysis years.

[(F)](H) "Baseline" Scenario. The regional emissions analysis required by subsections (B) *and (C)* through (E) of this section must estimate the emissions that would result from the "Baseline" scenario in each analysis year. The "Baseline" scenario must be defined for each of the analysis years. The "Baseline" scenario is the future transportation system that will result from current programs, including the following (except that exempt projects listed in section [(23)](26) and projects exempt from regional emissions analysis as listed in section [(24)](27) need not be explicitly considered):

1. All in-place regionally significant highway and transit facilities, services and activities;
2. All ongoing travel demand management or transportation system management activities; and
3. Completion of all regionally significant projects, regardless of funding source, which are currently under construction or are undergoing right-of-way acquisition (except for hardship acquisition and protective buying); come from the first year of the previously conforming transportation plan and/or TIP; or have completed the NEPA process.

[(G)](I) "Action" scenario. The regional emissions analysis required by subsections (B) *and (C)* through (E) of this section must estimate the emissions that would result from the "Action" scenario in each analysis year. The "Action" scenario must be defined for each of the analysis years. The "Action" scenario is the transportation system that would result from the implementation of the proposed action (transportation plan, TIP, or project not from a conforming transportation plan and TIP) and all other expected regionally significant projects in the nonattainment area. The "Action" scenario must include the following (except that exempt projects listed in section [(23)](26) and projects exempt from regional emissions analysis as listed section [(24)](27) need not be explicitly considered):

1. All facilities, services, and activities in the "Baseline" scenario;
2. Completion of all TCMs and regionally significant projects (including facilities, services, and activities) specifically identified in the proposed transportation plan which will be operational or in effect in the analysis year, except that regulatory TCMs may not be assumed to begin at a future time unless the regulation is already adopted by the enforcing jurisdiction or the TCM is identified in the applicable implementation plan;
3. All travel demand management programs and transportation system management activities known to the MPO, but not included in the applicable implementation plan or utilizing any federal funding or approval, which have been fully adopted and/or funded by the enforcing jurisdiction or sponsoring agency since the last conformity determination;
4. The incremental effects of any travel demand management programs and transportation system management activities known to the MPO, but not included in the applicable implementation plan or utilizing any federal funding or approval, which were adopted and/or

funded prior to the date of the last conformity determination, but which have been modified since then to be more stringent or effective;

5. Completion of all expected regionally significant highway and transit projects which are not from a conforming transportation plan and TIP; and

6. Completion of all expected regionally significant non-FHWA/FTA highway and transit projects that have clear funding sources and commitments leading toward their implementation and completion by the analysis year.

[(H)](J) Projects not from a conforming transportation plan and TIP. For the regional emissions analysis required by subsections (B) *and (C)* through (E) of this section, if the project which is not from a conforming transportation plan and TIP is a modification of a project currently in the plan or TIP, the "Baseline" scenario must include the project with its original design concept and scope, and the "Action" scenario must include the project with its new design concept and scope.

[(18)](20) Consequences of Control Strategy Implementation Plan Failures.

(A) Disapprovals.

1. If EPA disapproves any submitted control strategy implementation plan revision (with or without a protective findings), the conformity status of the transportation plan and TIP shall lapse on the date that highway sanctions as a result of the disapproval are imposed on the nonattainment area under section 179(b)(1) of the CAA. No new transportation plan, TIP, or project may be found to conform until another control strategy implementation plan revision fulfilling the same CAA requirements is submitted and conformity to this submission is determined.

2. If EPA disapproves a submitted control strategy implementation plan revision without making a protective finding, *[then beginning one hundred twenty (120) days after such disapproval, only projects in the first three (3) years of the currently conforming transportation plan and TIP may be found to conform. This means that beginning one hundred twenty (120) days after disapproval without a protective finding, no transportation plan, TIP, or project not in the first three (3) years of the currently conforming plan and TIP may be found to conform until another control strategy implementation plan revision fulfilling the same CAA requirements is submitted and conformity to this submission is determined. During the first one hundred twenty (120) days following EPA's disapproval without a protective finding, transportation plan, TIP, and project conformity determinations shall be made using the motor vehicle emissions budget(s) in the disapproved control strategy implementation plan revision, unless another control strategy implementation plan revision has been submitted and its motor vehicle emissions budget(s) applies for transportation conformity purposes, pursuant to section (9).]* **only projects in the first three (3) years of the currently conforming transportation plan and TIP may be found to conform. This means that beginning on the effective date of disapproval without a protective finding, no transportation plan, TIP, or project not in the first three (3) years of the currently conforming transportation plan and TIP may be found to conform until another control strategy implementation plan revision fulfilling the same CAA requirements is submitted, EPA finds its motor vehicle emissions budget(s) adequate pursuant to section (18) of this rule or approves the submission, and conformity to the implementation plan revision is determined.**

3. In disapproving a control strategy implementation plan revision, EPA would give a protective finding where a submitted plan contains adopted control measures or written commitments to adopt enforceable control measures that fully satisfy the emissions reduc-

tions requirements relevant to the statutory provision for which the implementation plan revision was submitted, such as reasonable further progress or attainment.

(B) Failure to Submit and Incompleteness. In areas where EPA notifies the state, MPO, and DOT of the state's failure to submit a control strategy implementation plan or submission of an incomplete control strategy implementation plan revision, (either of which initiates the sanction process under CAA section 179 or 110(m)), the conformity status of the transportation plan and TIP shall lapse on the date that highway sanctions are imposed on the nonattainment area for such failure under section 179(b)(1) of the CAA, unless the failure has been remedied and acknowledged by a letter from the EPA regional administrator.

(C) Federal Implementation Plans. If EPA promulgates a federal implementation plan that contains motor vehicle emissions budget(s) as a result of a state failure, the conformity lapse imposed by this section because of that state failure is removed.

[(19)](21) Requirements for Adoption or Approval of Projects by Other Recipients of Funds Designated under Title 23 U.S.C. or the Federal Transit Laws. [No recipient of federal funds designated under Title 23 U.S.C. or the Federal Transit Laws shall adopt or approve a regionally significant highway or transit project, regardless of funding source, unless the recipient finds that the requirements of one of the following are met:

(A) The project was included in the first three (3) years of the most recently conforming transportation plan and TIP (or the conformity determination's regional emissions analyses), even if conformity status is currently lapsed; and the project's design concept and scope has not changed significantly from those analyses; or

(B) There is a currently conforming transportation plan and TIP, and a new regional emissions analysis including the project and the currently conforming transportation plan and TIP demonstrates that the transportation plan and TIP would still conform if the project were implemented (consistent with the requirements of sections (16) and/or (17) for a project not from a conforming transportation plan and TIP).]

(A) Except as provided in subsection (B) of this section, no recipient of federal funds designated under Title 23 U.S.C. or the Federal Transit Laws shall adopt or approve a regionally significant highway or transit project, regardless of funding source, unless the recipient finds that the requirements of one (1) of the following are met:

1. The project comes from the currently conforming transportation plan and TIP, and the project's design concept and scope have not changed significantly from those which were included in the regional emissions analysis for that transportation plan and TIP;

2. The project is included in the regional emissions analysis for the currently conforming transportation plan and TIP conformity determination (even if the project is not strictly included in the transportation plan or TIP for the purpose of MPO project selection or endorsement) and the project's design concept and scope have not changed significantly from those which were included in the regional emissions analysis; or

3. A new regional emissions analysis including the project and the currently conforming transportation plan and TIP demonstrates that the transportation plan and TIP would still conform if the project were implemented (consistent with the requirements of sections (18) and/or (19) for a project not from a conforming transportation plan and TIP).

(B) In isolated rural nonattainment and maintenance areas subject to subsection (9)(A), no recipient of federal funds designated under Title 23 U.S.C. or the Federal Transit Laws shall adopt or approve a regionally significant highway or transit pro-

ject, regardless of funding source, unless the recipient finds that the requirements of one (1) of the following are met:

1. The project was included in the regional emissions analysis supporting the most recent conformity determination that reflects the portion of the statewide transportation plan and statewide TIP which are in the nonattainment or maintenance area, and the project's design concept and scope has not changed significantly; or

2. A new regional emissions analysis including the project and all other regionally significant projects expected in the nonattainment or maintenance area demonstrates that those projects in the statewide transportation plan and statewide TIP which are in the nonattainment or maintenance area would still conform if the project was implemented (consistent with the requirements of sections (18) and/or (19) for projects not from a conforming transportation plan and TIP).

(C) Notwithstanding subsections (A) and (B) of this section, in nonattainment and maintenance areas subject to subsections (9)(J) or (K) for a given pollutant/precursor and NAAQS, no recipient of federal funds designated under Title 23 U.S.C. or the Federal Transit Laws shall adopt or approve a regionally significant highway or transit project, regardless of funding source, unless the recipient finds that the requirements of one (1) of the following are met for that pollutant/precursor and NAAQS:

1. The project was included in the most recent conformity determination for the transportation plan and TIP and the project's design concept and scope has not changed significantly; or

2. The project was included in the most recent conformity determination that reflects the portion of the statewide transportation plan and statewide TIP which are in the nonattainment or maintenance area, and the project's design concept and scope has not changed significantly.

[(20)](22) Procedures for Determining Regional Transportation-Related Emissions.

(A) General Requirements.

1. The regional emissions analysis required by section *[(16)](18)* and section *[(17)](19)* of this rule for the transportation plan, TIP, or project not from a conforming plan and TIP must include all regionally significant projects expected in the nonattainment or maintenance area. The analysis shall include FHWA/FTA projects proposed in the transportation plan and TIP and all other regionally significant projects which are disclosed to the MPO as required by section (5) of this rule. Projects which are not regionally significant are not required to be explicitly modeled, but vehicle miles traveled (VMT) from such projects must be estimated in accordance with reasonable professional practice. The effects of TCMs and similar projects that are not regionally significant may also be estimated in accordance with reasonable professional practice.

2. The emissions analysis may not include for emissions reduction credit any TCMs or other measures in the applicable implementation plan which have been delayed beyond the scheduled date(s) until such time as their implementation has been assured. If the measure has been partially implemented and it can be demonstrated that it is providing quantifiable emission reduction benefits, the emissions analysis may include that emissions reduction credit.

3. Emissions reduction credit from projects, programs, or activities which require a regulatory action in order to be implemented may not be included in the emissions analysis unless:—

A. The regulatory action is already adopted by the enforcing jurisdiction;

B. The project, program, or activity is included in the applicable implementation plan;

C. The control strategy implementation plan submission or maintenance plan submission that establishes the motor vehicle emissions budget(s) for the purposes of section *[(16)](18)* contains a

written commitment to the project, program, or activity by the agency with authority to implement it; or

D. EPA has approved an opt-in to a federally enforced program, EPA has promulgated the program (if the control program is a federal responsibility, such as tailpipe standards), or the Clean Air Act requires the program without need for individual state action and without any discretionary authority for EPA to set its stringency, delay its effective date, or not implement the program.

4. Notwithstanding paragraph *[(20)/(22)]*(A)3. of this rule, emission reduction credit from control measures that are not included in the transportation plan and TIP and that do not require a regulatory action in order to be implemented may not be included in the emissions analysis unless the conformity determination includes written commitments to implementation from the appropriate entities.

A. Persons or entities voluntarily committing to control measures must comply with the obligations of such commitments.

B. Written commitments to mitigation measures must be obtained prior to a conformity determination, and project sponsors must comply with such commitments.

5. A regional emissions analysis for the purpose of satisfying the requirements of section *[(17)/(19)]* must make the same assumptions in both the "Baseline" and "Action" scenarios regarding control measures that are external to the transportation system itself, such as vehicle tailpipe or evaporative emission standards, limits on gasoline volatility, vehicle inspection and maintenance programs, and oxygenated or reformulated gasoline or diesel fuel.

6. The ambient temperatures used for the regional emissions analysis shall be consistent with those used to establish the emissions budget in the applicable implementation plan. All other factors, for example the fraction of travel in a hot stabilized engine mode, must be consistent with the applicable implementation plan, unless modified after interagency consultation in accordance with subparagraph (5)(C)1.A. to incorporate additional or more geographically specific information or represent a logically estimated trend in such factors beyond the period considered in the applicable implementation plan.

7. Reasonable methods shall be used to estimate nonattainment or maintenance area vehicle miles traveled (VMT) on off-network roadways within the urban transportation planning area, and on roadways outside the urban transportation planning area.

(B) Regional emissions analysis in serious, severe, and extreme ozone nonattainment areas must meet the requirements of paragraphs (B)1. through 3. of this section if their metropolitan planning area contains an urbanized area population over two hundred thousand (200,000).

1. Beginning January 1, 1997, estimates of regional transportation-related emissions used to support conformity determinations must be made at a minimum using network-based travel models according to procedures and methods that are available and in practice and supported by current and available documentation. These procedures, methods, and practices are available from DOT and will be updated periodically. Agencies must discuss these modeling procedures and practices through the interagency consultation process, as required by subparagraph (5)(C)1.A. Network-based travel models must at a minimum satisfy the following requirements[:/]:—

A. Network-based travel models must be validated against observed counts (peak and off-peak, if possible) for a base year that is not more than ten (10) years prior to the date of the conformity determination. Model forecasts must be analyzed for reasonableness and compared to historical trends and other factors, and the results must be documented;

B. Land use, population, employment, and other network-based travel model assumptions must be documented and based on the best available information;

C. Scenarios of land development and use must be consistent with the future transportation system alternatives for which emissions

are being estimated. The distribution of employment and residences for different transportation options must be reasonable;

D. A capacity-sensitive assignment methodology must be used, and emissions estimates must be based on a methodology which differentiates between peak and off-peak link volumes and speeds and uses speeds based on final assigned volumes;

E. Zone-to-zone travel impedances used to distribute trips between origin and destination pairs must be in reasonable agreement with the travel times that are estimated from final assigned traffic volumes. Where use of transit currently is anticipated to be a significant factor in satisfying transportation demand, these times should also be used for modeling mode splits; and

F. Network-based travel models must be reasonably sensitive to changes in the time(s), cost(s), and other factors affecting travel choices.

2. Reasonable methods in accordance with good practice must be used to estimate traffic speeds and delays in a manner that is sensitive to the estimated volume of travel on each roadway segment represented in the network-based travel model.

3. Highway Performance Monitoring System (HPMS) estimates of vehicle miles traveled (VMT) shall be considered the primary measure of VMT within the portion of the nonattainment or maintenance area and for the functional classes of roadways included in HPMS, for urban areas which are sampled on a separate urban area basis. For areas with network-based travel models, a factor (or factors) may be developed to reconcile and calibrate the network-based travel model estimates of VMT in the base year of its validation to the HPMS estimates for the same period. These factors may then be applied to model estimates of future VMT. In this factoring process, consideration will be given to differences between HPMS and network-based travel models, such as differences in the facility coverage of the HPMS and the modeled network description. Locally developed count-based programs and other departures from these procedures are permitted subject to the interagency consultation procedures of subparagraph (5)(C)1.A.

(C) Two (2)-year grace period for regional emissions analysis requirements in certain ozone and CO areas. The requirements of subsection (B) of this section apply to such areas or portions of such areas that have not previously been required to meet these requirements for any existing NAAQS two (2) years from the following:

1. The effective date of EPA's reclassification of an ozone or CO nonattainment area that has an urbanized area population greater than two hundred thousand (>200,000) to serious or above;

2. The official notice by the Census Bureau that determines the urbanized area population of a serious or above ozone or CO nonattainment area to be greater than two hundred thousand (>200,000); or

3. The effective date of EPA's action that classifies a newly designated ozone or CO nonattainment area that has an urbanized area population greater than two hundred thousand (>200,000) as serious or above.

[(C)](D) In all areas not otherwise subject to subsection (B) of this section, regional emissions analyses must use those procedures described in subsection (B) of this section if the use of those procedures has been the previous practice of the MPO. Otherwise, areas not subject to subsection (B) of this section may estimate regional emissions using any appropriate methods that account for VMT growth by, for example, extrapolating historical VMT or projecting future VMT by considering growth in population and historical growth trends for VMT per person. These methods must also consider future economic activity, transit alternatives, and transportation system policies.

[(D)](E) PM₁₀ from Construction-Related Fugitive Dust.

1. For areas in which the implementation plan does not identify construction-related fugitive PM_{10} as a contributor to the nonattainment problem, the fugitive PM_{10} emissions associated with highway and transit project construction are not required to be considered in the regional emissions analysis.

2. In PM_{10} nonattainment and maintenance areas with implementation plans which identify construction-related fugitive PM_{10} as a contributor to the nonattainment problem, the regional PM_{10} emissions analysis shall consider construction-related fugitive PM_{10} and shall account for the level of construction activity, the fugitive PM_{10} control measures in the applicable implementation plan, and the dust-producing capacity of the proposed activities.

(F) $PM_{2.5}$ from construction-related fugitive dust.

1. For $PM_{2.5}$ areas in which the implementation plan does not identify construction-related fugitive $PM_{2.5}$ as a significant contributor to the nonattainment problem, the fugitive $PM_{2.5}$ emissions associated with highway and transit project construction are not required to be considered in the regional emissions analysis.

2. In $PM_{2.5}$ nonattainment and maintenance areas with implementation plans which identify construction-related fugitive $PM_{2.5}$ as a significant contributor to the nonattainment problem, the regional $PM_{2.5}$ emissions analysis shall consider construction-related fugitive $PM_{2.5}$ and shall account for the level of construction activity, the fugitive $PM_{2.5}$ control measures in the applicable implementation plan, and the dust-producing capacity of the proposed activities.

[(E)/(G) Reliance on Previous Regional Emissions Analysis.

1. **Conformity determinations for a new transportation plan and/or [The] TIP** may be demonstrated to satisfy the requirements of section [(16)/(18) Motor Vehicle Emissions Budget or section [(17)/(19) Interim Emissions Reductions] in Areas without Motor Vehicle Emissions Budgets of this rule without new regional analysis if the **previous** regional emissions analysis [already performed for the plan] also applies to the **new plan and/or TIP**. This requires a demonstration that—

A. The **new plan and/or TIP** contains all projects which must be started in the **plan and TIP's** time frames in order to achieve the highway and transit system envisioned by the transportation plan;

B. All **plan and TIP** projects which are regionally significant are included in the transportation plan with design concept and scope adequate to determine their contribution to the transportation plan's **and/or TIP's** regional emissions at the time of the [transportation plan's] **previous** conformity determination; [and]

C. The design concept and scope of each regionally significant project in the **new plan and/or TIP** is not significantly different from that described in the **previous** transportation plan[.]; and

D. The **previous** regional emissions analysis is consistent with the requirements of section (18) (including that conformity to all currently applicable budgets is demonstrated) and/or section (19), as applicable.

2. A project which is not from a conforming transportation plan and a conforming TIP may be demonstrated to satisfy the requirements of section [(16)/(18) or section [(17)/(19) of this rule without additional regional emissions analysis if allocating funds to the project will not delay the implementation of projects in the transportation plan or TIP which are necessary to achieve the highway and transit system envisioned by the transportation plan, the **previous** regional emissions analysis is still consistent with the requirements of section (18) (including that conformity to all currently applicable budgets is demonstrated) and/or section (19) as applicable, and if the project is either—

A. Not regionally significant; or

B. Included in the conforming transportation plan (even if it is not specifically included in the latest conforming TIP) with design concept and scope adequate to determine its contribution to the transportation plan's regional emissions at the time of the transportation plan's conformity determination, and the design concept and scope of the project is not significantly different from that described in the transportation plan.

3. A conformity determination that relies on subsection (G) of this section does not satisfy the frequency requirements of subsection (4)(B) or (C).

(23) Procedures for Determining Localized CO and PM_{10} Concentrations (Hot-Spot Analysis).

(A) CO Hot-Spot Analysis.

1. The demonstrations required by section (16) Localized CO Violations must be based on quantitative analysis using air quality models, databases, and other requirements specified in 40 CFR part 51, Appendix W Guideline on Air Quality Models. These procedures shall be used in the following cases, unless different procedures developed through the interagency consultation process required in section (5) and approved by the EPA regional administrator are used:

A. For projects in or affecting locations, areas, or categories of sites which are identified in the applicable implementation plan as sites of violation or possible violation;

B. For projects affecting intersections that are at Level-of-Service D, E, or F, or those that will change to Level-of-Service D, E, or F because of increased traffic volumes related to the project;

C. For any project affecting one (1) or more of the top three (3) intersections in the nonattainment or maintenance area with highest traffic volumes, as identified in the applicable implementation plan; and

D. For any project affecting one (1) or more of the top three (3) intersections in the nonattainment or maintenance area with the worst level-of-service, as identified in the applicable implementation plan.

2. In cases other than those described in paragraph (A)1. of this section, the demonstrations required by section (16) may be based on either—

A. Quantitative methods that represent reasonable and common professional practice; or

B. A quantitative consideration of local factors, if this can provide a clear demonstration that the requirements of section (16) are met.

(B) General Requirements.

1. Estimated pollutant concentrations must be based on the total emissions burden which may result from the implementation of the project, summed together with future background concentrations. The total concentrations must be estimated and analyzed at appropriate receptor locations in the area substantially affected by the project.

2. CO hot-spot analyses must include the entire project, and may be performed only after the major design features which will significantly impact CO concentrations have been identified. The future background concentration should be estimated by multiplying current background by the ratio of future to current traffic and the ratio of future to current emission factors.

3. Hot-spot analysis assumptions must be consistent with those in the regional emissions analysis for those inputs which are required for both analyses.

4. CO mitigation or control measures shall be assumed in the hot-spot analysis only where there are written commitments

from the project sponsor and/or operator to implement such measures, as required by subsection (25)(A).

5. CO hot-spot analyses are not required to consider construction-related activities which cause temporary increases in emissions. Each site which is affected by construction-related activities shall be considered separately, using established "Guideline" methods. Temporary increases are defined as those which occur only during the construction phase and last five (5) years or less at any individual site.

[(21)](24) Using the Motor Vehicle Emissions Budget in the Applicable Implementation Plan (or Implementation Plan Submission).

(A) In interpreting an applicable implementation plan (or implementation plan submission) with respect to its motor vehicle emissions budget(s), the MPO and DOT may not infer additions to the budget(s) that are not explicitly intended by the implementation plan (or submission). Unless the implementation plan explicitly quantifies the amount by which motor vehicle emissions could be higher while still allowing a demonstration of compliance with the milestone, attainment, or maintenance requirement and explicitly states an intent that some or all of this additional amount should be available to the MPO and DOT in the emission budget for conformity purposes, the MPO may not interpret the budget to be higher than the implementation plan's estimate of future emissions. This applies in particular to applicable implementation plans (or submissions) which demonstrate that after implementation of control measures in the implementation plan—

1. Emissions from all sources will be less than the total emissions that would be consistent with a required demonstration of an emissions reduction milestone;

2. Emissions from all sources will result in achieving attainment prior to the attainment deadline and/or ambient concentrations in the attainment deadline year will be lower than needed to demonstrate attainment; or

3. Emissions will be lower than needed to provide for continued maintenance.

[(B)] *If an applicable implementation plan submitted before November 24, 1993, demonstrates that emissions from all sources will be less than the total emissions that would be consistent with attainment and quantifies that "safety margin", the state may submit an implementation plan revision which assigns some or all of this safety margin to highway and transit motor vehicle sources for the purposes of conformity. Such an implementation plan revision, once it is endorsed by the governor and has been subject to a public hearing, may be used for the purposes of transportation conformity before it is approved by EPA.]*

[(C)](B) A conformity demonstration shall not trade emissions among budgets which the applicable implementation plan (or implementation plan submission) allocates for different pollutants or precursors, or among budgets allocated to motor vehicles and other sources, unless the implementation plan establishes mechanisms for such trades.

[(D)](C) If the applicable implementation plan (or implementation plan submission) estimates future emissions by geographic subarea of the nonattainment area, the MPO and DOT are not required to consider this to establish subarea budgets, unless the applicable implementation plan (or implementation plan submission) explicitly indicates an intent to create such subarea budgets for the purposes of conformity.

[(E)](D) If a nonattainment area includes more than one MPO, the implementation plan may establish motor vehicle emissions budgets for each MPO, or else the MPOs must collectively make a conformity determination for the entire nonattainment area.

[(22)](25) Enforceability of Design Concept and Scope and Project-Level Mitigation and Control Measures.

(A) Prior to determining that a transportation project is in conformity, the MPO, other recipient of funds designated under Title 23 U.S.C. or the Federal Transit Laws, FHWA, or FTA must obtain from the project sponsor and/or operator written commitments to implement in the construction of the project and operation of the resulting facility or service any project-level mitigation or control measures which are identified as conditions for NEPA process completion with respect to local PM₁₀ or CO impacts. Before a conformity determinations is made, written commitments must also be obtained for project-level mitigation or control measures which are conditions for making conformity determinations for a transportation plan or TIP and are included in the project design concept and scope which is used in the regional emissions analysis required by sections **[(16)](18)** Motor Vehicle Emissions Budget and **[(17)](19)** **Interim Emissions [Reductions] in Areas Without Motor Vehicles Emissions Budgets or used in the project-level hot-spot analysis required by section (16).**

(B) Project sponsors voluntarily committing to mitigation measures to facilitate positive conformity determinations must comply with the obligations of such commitments.

(C) Written commitments to mitigation measures must be obtained prior to a conformity determination, and project sponsors must comply with such commitments.

(D) If the MPO or project sponsor believes the mitigation or control measure is no longer necessary for conformity, the project sponsor or operator may be relieved of its obligation to implement the mitigation or control measure if it can demonstrate that the applicable emission budget requirements of section **[(16)](18)** and **interim emissions [reduction] requirements of section [(17)](19)** are satisfied without the mitigation or control measure, and so notifies the agencies involved in the interagency consultation process required under section (5). The MPO and DOT must find that the transportation plan and TIP still satisfy the applicable requirements of sections **[(16)](18)** and/or **[(17)](19)**, and therefore that the conformity determinations for the transportation plan, TIP, and project are still valid. This finding is subject to the applicable public consultation requirements in subsection (5)(E) for conformity determination for projects.

[(23)](26) Exempt Projects. Notwithstanding the other requirements of this rule, highway and transit projects of the types listed in Table 2 of this section are exempt from the requirement to determine conformity. Such projects may proceed toward implementation even in the absence of a conforming transportation plan and TIP. A particular action of the type listed in Table 2 of this section is not exempt if the MPO in consultation with other agencies (see subparagraph (5)(C)1.C.), the EPA, and the FHWA (in the case of a highway project) or the FTA (in the case of a transit project) concur that it has potentially adverse emissions impacts for any reason. The state and the MPO must ensure that exempt projects do not interfere with TCM implementation. Table 2 follows:

Table 2—Exempt Projects

Safety

Railroad/highway crossing

Hazard elimination program

Safer nonfederal-aid system roads

Shoulder improvements

Increasing sight distance

Safety improvement program

Traffic control devices and operating assistance other than signalization projects

Railroad/highway crossing warning devices

Guardrails, median barriers, crash cushions
Pavement resurfacing or rehabilitation
Pavement marking demonstration
Emergency relief (23 U.S.C. 125)
Fencing
Skid treatments
Safety roadside rest areas
Adding medians
Truck climbing lanes outside the urbanized area
Lighting improvements
Widening narrow pavements or reconstructing bridges (no additional travel lanes)
Emergency truck pullovers

Mass Transit

Operating assistance to transit agencies
Purchase of support vehicles
Rehabilitation of transit vehicles¹
Purchase of office, shop, and operating equipment for existing facilities
Purchase of operating equipment for vehicles (e.g., radios, fare boxes, lifts, etc.)
Construction or renovation of power, signal, and communications systems
Construction of small passenger shelters and information kiosks
Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)
Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way
Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet¹
Construction of new bus or rail storage/maintenance facilities categorically excluded in 23 CFR part 771

Air Quality

Continuation of ride-sharing and van-pooling promotion activities at current levels
Bicycle and pedestrian facilities

Other

Specific activities which do not involve or lead directly to construction, such as—
Planning and technical studies
Grants for training and research programs
Planning activities conducted pursuant to Titles 23 and 49 U.S.C.
Federal-aid systems revisions
Engineering to assess social, economic, and environmental effects of the proposed action or alternatives to that action
Noise attenuation
Emergency or hardship advance land acquisitions [(23 CFR part 712.204(d))](23 CFR 710.503)
Acquisition of scenic easements
Plantings, landscaping, etc.
Sign removal
Directional and informational signs
Transportation enhancement activities (except rehabilitation and operation of historic transportation buildings, structures, or facilities)
Repair of damage caused by natural disasters, civil unrest, or terrorist acts, except projects involving substantial functional, locational, or capacity changes

¹Note—In PM₁₀ nonattainment or maintenance areas, such projects are exempt only if they are in compliance with control measures in the applicable implementation plan.

[(24)](27) Projects Exempt From Regional Emissions Analyses. Notwithstanding the other requirements of this rule, highway and transit projects of the types listed in Table 3 of this section are exempt from regional emissions analysis requirements. These projects may then proceed to the project development process even in the absence of a conforming transportation plan and TIP. A particular action of the type listed in Table 3 of this section is not exempt from regional emissions analysis if the MPO in consultation with other agencies (see subparagraph (5)(C)1.C.), the EPA, and the FHWA (in the case of a highway project) or the FTA (in the case of a transit project) concur that it has potential regional impacts for any reason. Table 3 follows:

Table 3—Projects Exempt from Regional Emissions Analyses

Intersection channelization projects
Intersection signalization projects at individual intersections
Interchange reconfiguration projects
Changes in vertical and horizontal alignment
Truck size and weight inspection stations
Bus terminals and transfer points

[(25)](28) Traffic Signal Synchronization Projects. Traffic signal synchronization projects may be approved, funded, and implemented without satisfying the requirements of this section. However, all subsequent regional emissions analyses required by sections [(16)](18) and [(17)](19) for transportation plans, TIPs, or projects not from a conforming plan and TIP must include such regionally significant traffic signal synchronization projects.

AUTHORITY: section 643.050, RSMo 2000. Original rule filed Oct. 4, 1994, effective May 28, 1995. Amended: Filed May 1, 1996, effective Dec. 30, 1996. Amended: Filed June 15, 1998, effective Jan. 30, 1999. Amended: Filed Feb. 14, 2003, effective Sept. 30, 2003. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: A public hearing on this proposed amendment will begin at 9:00 a.m., June 30, 2005. The public hearing will be held at the Governor Office Building, Room 450, 200 Madison Street, Jefferson City, MO 65101. Opportunity to be heard at the hearing shall be afforded any interested person. Written request to be heard should be submitted at least seven (7) days prior to the hearing to Director, Missouri Department of Natural Resources' Air Pollution Control Program, 205 Jefferson Street, PO Box 176, Jefferson City, MO 65102-0176, (573) 751-4817. Interested persons, whether or not heard, may submit a written statement of their views until 5:00 p.m., July 7, 2005. Written comments shall be sent to Chief, Operations Section, Missouri Department of Natural Resources' Air Pollution Control Program, 205 Jefferson Street, PO Box 176, Jefferson City, MO 65102-0176.

Title 10—DEPARTMENT OF NATURAL RESOURCES Division 10—Air Conservation Commission Chapter 5—Air Quality Standards and Air Pollution Control Rules Specific to the St. Louis Metropolitan Area

PROPOSED AMENDMENT

10 CSR 10-5.480 Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 U.S.C. or the Federal Transit Laws. The commission proposes to amend original sections (1), (2), (7) and (16), and original subsections (4)(B)–(4)(E), (5)(A), (5)(C), (5)(F), (6)(B), (6)(C), (9)(A)–(9)(D), (10)(A), (15)(C) and (16); renumber and amend original sections (17)–(24), (25) and (27); renumber original section (26); add new subsections (9)(D), (9)(E), (9)(G)–(9)(L) and new section (17). If the commission adopts this rule action, it will be submitted to the U.S. Environmental Protection Agency to replace the current rule in the Missouri State Implementation Plan. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Air Pollution Control Program at the address and phone number listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Environmental Regulatory Agenda website, www.dnr.mo.gov/regs/regagenda.htm.

PURPOSE: This rule implements section 176(c) of the Clean Air Act (CAA), as amended (42 U.S.C. 7401 et seq.), and the related requirements of 23 U.S.C. 109(j), with respect to the conformity of transportation plans, programs, and projects which are developed, funded, or approved by the United States Department of Transportation (DOT), and by metropolitan planning organizations (MPOs) or other recipients of funds under Title 23 U.S.C. or the Federal Transit Laws (49 U.S.C. Chapter 53). This rule sets forth policy, criteria, and procedures for demonstrating and assuring conformity of such activities to the applicable implementation plan, developed pursuant to section 110 and Part D of the CAA. This rule applies to the St. Louis ozone nonattainment and carbon monoxide maintenance areas. This amendment will make several changes to the current rule requiring transportation plans, programs, and projects to conform to state air quality implementation plans. This amendment will adopt specific revisions to the Federal Transportation Conformity Rule as amended July 1, 2004. A Transportation Conformity State Implementation Plan (SIP) revision consistent with this federal amendment must be submitted to the U.S. Environmental Protection Agency (EPA) within twelve (12) months. The evidence supporting the need for this proposed rulemaking, per section 536.016, RSMo, is the Federal Register Notice issued July 1, 2004, (Volume 69, Number 126 Pages 40003–40081) regarding Transportation Conformity Rule Amendments for the New 8-Hour Ozone and PM_{2.5} National Ambient Air Quality Standards.

PURPOSE: This rule implements section 176(c) of the Clean Air Act (CAA), as amended (42 U.S.C. 7401 et seq.), and the related requirements of 23 U.S.C. 109(j), with respect to the conformity of transportation plans, programs, and projects which are developed, funded, or approved by the United States Department of Transportation (DOT), and by metropolitan planning organizations (MPOs) or other recipients of funds under Title 23 U.S.C. or the Federal Transit Laws (49 U.S.C. Chapter 53). This rule sets forth policy, criteria, and procedures for demonstrating and assuring conformity of such activities to the applicable implementation plan, developed pursuant and applicable to section 110 and Part D of the CAA. This rule applies to the St. Louis ozone nonattainment and carbon monoxide [nonattainment] maintenance areas.

(1) Definitions.

(A) Terms used but not defined in this rule shall have the meaning given them by the **Clean Air Act (CAA)**, Titles 23 and 49 **United States Code (U.S.C.)**, other United States Environmental Protection Agency (EPA) regulations, other **United States Department of Transportation (DOT)** regulations, or other state or local air quality or transportation rules, in that order of priority. Definitions for some terms used in this rule may be found in 10 CSR 10-6.020.

(B) Additional definitions specific to this rule are as follows:

1. One (1)-hour ozone National Ambient Air Quality Standard (NAAQS)—the one (1)-hour ozone national ambient air quality standard codified at 40 CFR 50.9;

2. Eight (8)-hour ozone National Ambient Air Quality Standard (NAAQS)—the eight (8)-hour ozone national ambient air quality standard codified at 40 CFR 50.10;

[1.]3. Applicable implementation plan—defined in section 302(q) of the CAA, the portion (or portions) of the state implementation plan for ozone or carbon monoxide (CO), or most recent revision thereof, which has been approved under section 110, or promulgated under section 110(c), or promulgated or approved pursuant to regulations promulgated under section 301(d) and which implements the relevant requirements of the CAA;

[2.]4. CAA—the Clean Air Act, as amended (42 U.S.C. 7401 et seq.);

[3.]5. Cause or contribute to a new violation for a project—

A. To cause or contribute to a new violation of a standard in the area substantially affected by the project or over a region which would otherwise not be in violation of the standard during the future period in question, if the project were not implemented; or

B. To contribute to a new violation in a manner that would increase the frequency or severity of a new violation of a standard in such area;

[4.]6. Clean data—air quality monitoring data determined by EPA to meet the requirements of 40 *Code of Federal Regulations (CFR)* part 58 that indicate attainment of the national ambient quality standard;

[5.]7. Consultation—in the transportation conformity process, one (1) party confers with another identified party, provides all information to that party needed for meaningful input, and considers the views of that party and responds to those views in a timely, substantive written manner prior to any final decision on such action. Such views and written response shall be made part of the record of any decision or action;

[6.] Control strategy implementation plan revision—the implementation plan which contains specific strategies for controlling the emissions of and reducing ambient levels of pollutants in order to satisfy CAA requirements for demonstrations of reasonable further progress and attainment (CAA sections 182(b)(1), 182(c)(2)(A), 182(c)(2)(B), 187(a)(7), 189(a)(1)(B), and 189(b)(1)(A); and sections 192(a) and 192(b), for nitrogen dioxide);

8. Control strategy implementation plan revision—the implementation plan which contains specific strategies for controlling the emissions of and reducing ambient levels of pollutants in order to satisfy CAA requirements for demonstrations of reasonable further progress and attainment (including implementation plan revisions submitted to satisfy CAA sections 172(c), 182(b)(1), 182(c)(2)(A), 182(c)(2)(B), 187(a)(7), 187(g), 189(a)(1)(B), 189(b)(1)(A), and 189(d); sections 192(a) and 192(b), for nitrogen dioxide; and any other applicable CAA provision requiring a demonstration of reasonable further progress or attainment);

[7.]9. Design concept—the type of facility identified by the project, e.g., freeway, expressway, arterial highway, grade-separated highway, reserved right-of-way rail transit, mixed traffic rail transit, exclusive busway, etc.;

[8.]10. Design scope—the design aspects which will affect the proposed facility's impact on regional emissions, usually as they relate to vehicle or person carrying capacity and control, e.g., number of lanes or tracks to be constructed or added, length of project, signalization, access control including approximate number and location of interchanges, preferential treatment for high-occupancy vehicles, etc.;

11. Donut areas—geographic areas outside a metropolitan planning area boundary, but inside the boundary of a nonattainment or maintenance area that contains any part of a metropolitan area(s). These areas are not isolated rural nonattainment and maintenance areas;

[9./12. DOT—the United States Department of Transportation;

[10./13. EPA—the Environmental Protection Agency;

[11./14. FHWA—the Federal Highway Administration of DOT;

[12./15. FHWA/FTA project—for the purpose of this rule, any highway or transit project which is proposed to receive funding assistance and approval through the Federal-Aid Highway program or the Federal mass transit program, or requires Federal Highway Administration (FHWA) or Federal Transit Administration (FTA) approval for some aspect of the project, such as connection to an interstate highway or deviation from applicable design standards on the interstate system;

[13./16. Forecast period—with respect to a transportation plan, the period covered by the transportation plan pursuant to 23 CFR part 450;

[14./17. FTA—the Federal Transit Administration of DOT;

[15./18. Highway project—an undertaking to implement or modify a highway facility or highway-related program. Such an undertaking consists of all required phases necessary for implementation. For analytical purposes, it must be defined sufficiently to—

A. Connect logical *termini* and be of sufficient length to address environmental matters on a broad scope;

B. Have independent utility or significance, i.e., be usable and be a reasonable expenditure even if no additional transportation improvements in the area are made; and

C. Not restrict consideration of alternatives for other reasonably foreseeable transportation improvements;

[16./19. Horizon year—a year for which the transportation plan describes the envisioned transportation system according to section (6) of this rule;

[17./20. Hot-spot analysis—an estimation of likely future localized **carbon monoxide (CO)** and **particulate matter (PM₁₀)** pollutant concentrations and a comparison of those concentrations to the national ambient air quality standard(s). Hot-spot analysis assesses impacts on a scale smaller than the entire nonattainment or maintenance area, including, for example, congested roadway intersections and highways or transit terminals, and uses an air quality dispersion model to determine the effects of emissions on air quality;

[18./21. Increase the frequency or severity—to cause a location or region to exceed a standard more often or to cause a violation at a greater concentration than previously existed and/or would otherwise exist during the future period in question, if the project were not implemented;

22. Isolated rural nonattainment and maintenance areas—areas that do not contain or are not part of any metropolitan planning area as designated under the transportation planning regulations. Isolated rural areas do not have federally required metropolitan transportation plans or transportation improvement programs, (TIPs) and do not have projects that are part of the emissions analysis of any metropolitan planning organization's (MPO's) metropolitan transportation plan or TIP. Projects in such areas are instead included in statewide transportation improvement programs. These areas are not donut areas;

[19./23. Lapse—the conformity determination for a transportation plan or **transportation improvement program (TIP)** has expired, and thus there is no currently conforming transportation plan and [transportation improvement program (TIP)];

24. Limited maintenance plan—a maintenance plan that EPA has determined meets EPA's limited maintenance plan policy criteria for a given NAAQS and pollutant. To qualify for a limited maintenance plan, for example, an area must have a design value that is significantly below a given NAAQS, and it must be reasonable to expect that a NAAQS violation will not result from any level of future motor vehicle emissions growth;

[20./25. Maintenance area—any geographic region of the United States previously designated nonattainment pursuant to the CAA Amendments of 1990 and subsequently redesignated to attainment subject to the requirement to develop a maintenance plan under section 175A of the CAA, as amended;

[21./26. Maintenance plan—an implementation plan under section 175A of the CAA, as amended;

[22./27. Metropolitan planning area—the geographic area in which the metropolitan transportation planning process required by 23 U.S.C. 134 and section 8 of the Federal Transit Act must be carried out;

[23./28. Metropolitan planning organization (MPO)—that organization designated as being responsible, together with the state, for conducting the continuing, cooperative, and comprehensive planning process under 23 U.S.C. 134 and 49 U.S.C. 5303. It is the forum for cooperative transportation decision-making. The East-West Gateway Coordinating Council is the MPO for the St. Louis metropolitan area and the organization responsible for conducting the planning required under section 174 of the CAA;

[24. *Milestone—the meaning given in sections 182(g)(1) and 189(c) of the CAA. A milestone consists of an emissions level and the date on which it is required to be achieved;*]

29. Milestone—the meaning given in CAA sections 182(g)(1) and 189(c) for serious and above ozone nonattainment areas and PM₁₀ nonattainment areas, respectively. For all other nonattainment areas, a milestone consists of an emissions level and the date on which that level is to be achieved as required by the applicable CAA provision for reasonable further progress towards attainment;

[25./30. Motor vehicle emissions budget—that portion of the total allowable emissions defined in the submitted or approved control strategy implementation plan revision or maintenance plan for a certain date for the purpose of meeting reasonable further progress milestones or demonstrating attainment or maintenance of the National Ambient Air Quality Standards (NAAQS), for any criteria pollutant or its precursors, allocated to highway and transit vehicle use and emissions. For purposes of meeting the conformity test required under sections [(17)](18) and/or [(18)](19) of this rule, the motor vehicle emissions budget in the applicable Missouri State Implementation Plan shall be combined with the motor vehicle emissions budget for the same pollutant in the applicable Illinois State Implementation Plan;

[26./31. National ambient air quality standards (NAAQS)—those standards established pursuant to section 109 of the CAA;

[27./32. NEPA—the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.);

[28./33. NEPA process completion—for the purposes of this rule, with respect to FHWA or FTA, the point at which there is a specific action to make a determination that a project is categorically excluded, to make a Finding of No Significant Impact, or to issue a record of decision on a Final Environmental Impact Statement under NEPA;

[29./34. Nonattainment area—any geographic region of the United States which has been designated as nonattainment under section 107 of the CAA for any pollutant for which a national ambient air quality standard exists;

[30./35. Not classified area—any carbon monoxide (CO) nonattainment area which EPA has not classified as either moderate or serious;

[31./36. Project—a highway project or transit project;

[32./37. Protective finding—a determination by EPA that a submitted control strategy implementation plan revision contains adoptable control measures or written commitments to adopt enforceable control measures that fully satisfy the emissions reductions requirements to the statutory provision for which the implementation plan revision was submitted, such as reasonable further progress or attainment;

[33./38. Recipient of funds designated under Title 23 U.S.C. or the Federal Transit Laws—any agency at any level of state, county, city, or regional government that routinely receives Title 23 U.S.C. or Federal Transit Laws funds to construct FHWA/FTA projects, operate FHWA/FTA projects or equipment, purchase equipment, or undertake other services or operations via contracts or agreements. This definition does not include private landowners or developers, or contractors or entities that are only paid for services or products created by their own employees;

[34./39. Regionally significant project—a transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals, as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum: all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel;

[35./40. Safety margin—the amount by which the total projected emissions from all sources of a given pollutant are less than the total emissions that would satisfy the applicable requirement for reasonable further progress, attainment, or maintenance;

[36./41. Standard—a national ambient air quality standard;

[37./42. Statewide transportation improvement program (STIP)—a staged, multiyear, intermodal program of transportation projects which is consistent with the statewide transportation plan and planning processes and metropolitan transportation plans, TIPs and processes, developed pursuant to 23 CFR part 450;

[38./43. Statewide transportation plan—the official statewide, intermodal transportation plan that is developed through the statewide transportation planning process, pursuant to 23 CFR part 450;

[39./44. Transit—mass transportation by bus, rail, or other conveyance which provides general or special service to the public on a regular and continuing basis. It does not include school buses or charter or sightseeing services;

[40./45. Transit project—an undertaking to implement or modify a transit facility or transit-related program; purchase transit vehicles or equipment; or provide financial assistance for transit operations. It does not include actions that are solely within the jurisdiction of local transit agencies, such as changes in routes, schedules, or fares. It may consist of several phases. For analytical purposes, it must be defined inclusively enough to—

A. Connect logical *termini* and be of sufficient length to address environmental matters on a broad scope;

B. Have independent utility or independent significance, i.e., be a reasonable expenditure even if no additional transportation improvements in the area are made; and

C. Not restrict consideration of alternatives for other reasonably foreseeable transportation improvements;

[41./46. Transportation control measure (TCM)—any measure that is specifically identified and committed to in the applicable implementation plan that is either one (1) of the types listed in section 108 of the CAA, or any other measure for the purpose of reducing emissions or concentrations of air pollutants from transportation sources by reducing vehicle use or changing traffic flow or congestion conditions. Notwithstanding the first sentence of this definition, vehicle technology-based, fuel-based, and maintenance-based measures which control the emissions from vehicles under fixed traffic conditions are not TCMs for the purposes of this rule;

[42./47. Transportation improvement program (TIP)—a staged, multiyear, intermodal program of transportation projects covering a metropolitan planning area which is consistent with the metropolitan transportation plan, and developed pursuant to 23 CFR part 450;

[43./48. Transportation plan—the official intermodal metropolitan transportation plan that is developed through the metropolitan planning process for the metropolitan planning area, developed pursuant to 23 CFR part 450;

[44./49. Transportation project—a highway project or a transit project; and

[45./50. Written commitment—for the purposes of this rule, a written commitment that includes a description of the action to be taken; a schedule for the completion of the action; a demonstration that funding necessary to implement the action has been authorized by the appropriating or authorizing body; and an acknowledgement that the commitment is an enforceable obligation under the applicable implementation plan.

(2) Applicability.

(A) Action Applicability.

1. Except as provided for in subsection (2)(C) or section **[(25)](26)**, conformity determinations are required for—

A. The adoption, acceptance, approval or support of transportation plans and transportation plan amendments developed pursuant to 23 CFR part 450 or 49 CFR part 613 by a MPO or DOT;

B. The adoption, acceptance, approval or support of TIPs and TIP amendments developed pursuant to 23 CFR part 450 or 49 CFR part 613 by a MPO or DOT; and

C. The approval, funding, or implementation of FHWA/FTA projects.

2. Conformity determinations are not required under this rule for individual projects which are not FHWA/FTA projects. However, section **[(20)](21)** applies to such projects if they are regionally significant.

(B) Geographic Applicability. The provisions of this rule shall apply in the Franklin, Jefferson, St. Charles and St. Louis Counties and the City of St. Louis nonattainment area for transportation-related criteria pollutants for which the area is designated nonattainment.

1. The provisions of this rule apply with respect to the emissions of the following criteria pollutants: ozone **[and]**, carbon monoxide (CO) (The provisions of this rule shall apply in St. Louis City and that portion of St. Louis County extending north, south and west from the St. Louis City/County boundary to Interstate 270 for CO emissions), **nitrogen dioxide (NO₂)**, **particles with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM₁₀)**; and **particles with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM_{2.5})**.

2. The provisions of this rule also apply with respect to emissions of the following precursor pollutants: **[volatile organic compounds (VOC) and nitrogen oxides (NO_x) in ozone areas; and]**

A. Volatile organic compounds (VOC) and nitrogen oxides (NO_x) in ozone areas;

B. NO_x in NO₂ areas; and

C. VOC and/or NO_x in PM₁₀ areas if the EPA regional administrator or the director of the state air agency has made a finding that transportation-related emissions of one (1) or both of these precursors within the nonattainment area are a significant contributor to the PM₁₀ nonattainment problem and has so notified the MPO and DOT, or if applicable implementation plan (or implementation plan submission) establishes an approved (or adequate) budget for such emissions as part of the reasonable further progress, attainment or maintenance strategy.

3. The provisions of this rule apply to PM_{2.5} nonattainment and maintenance areas with respect to PM_{2.5} from re-entrained road dust if the EPA regional administrator or the director of the state air agency has made a finding that re-entrained road dust emissions within the area are a significant contributor to the

PM_{2.5} nonattainment problem and has so notified the MPO and DOT, or if the applicable implementation plan (or implementation plan submission) includes re-entrained road dust in the approved (or adequate) budget as part of the reasonable further progress, attainment or maintenance strategy. Re-entrained road dust emissions are produced by travel on paved and unpaved roads (including emissions from anti-skid and deicing materials).

[3./4. The provisions of this rule apply to the Franklin, Jefferson, St. Charles and St. Louis Counties and the City of St. Louis nonattainment area for twenty (20) years from the date EPA approves the area's request under section 107(d) of the CAA for redesignation to attainment, unless the applicable implementation plan specifies that the provisions of this rule shall apply for more than twenty (20) years.

(C) Limitations. **In order to receive any FHWA/FTA approval or funding actions, including NEPA approvals, for a project phase subject to this subpart, a currently conforming transportation plan and TIP must be in place at the time of project approval as described in section 93.114, except as provided by section 93.114(b).**

1. Projects subject to this rule for which the NEPA process and a conformity determination have been completed by DOT may proceed toward implementation without further conformity determinations unless more than three (3) years have elapsed since the most recent major step (NEPA process completion; start of final design; acquisition of a significant portion of the right-of-way; or approval of the plans, specifications and estimates) occurred. All phases of such projects which were considered in the conformity determination are also included, if those phases were for the purpose of funding final design, right-of-way acquisition, construction, or any combination of these phases.

2. A new conformity determination for the project will be required if there is a significant change in project design concept and scope, if a supplemental environmental document for air quality purposes is initiated, or if three (3) years have elapsed since the most recent major step to advance the project occurred.

(D) Grace period for new nonattainment areas. For areas or portions of areas which have been continuously designated attainment or not designated for any *[standard]* NAAQS for ozone, CO, PM₁₀, PM_{2.5} or NO₂ since 1990 and are subsequently redesignated to nonattainment or designated nonattainment for any *[standard]* NAAQS for any of these pollutants, the provisions of this rule shall not apply with respect to that *[standard]* NAAQS for twelve (12) months following the effective date of final designation to nonattainment for each *[standard]* NAAQS for such pollutant.

(4) Frequency of Conformity Determinations.

(B) Frequency of Conformity Determinations for Transportation Plans.

1. Each new transportation plan must be demonstrated to conform before the transportation plan is approved by the MPO or accepted by DOT.

2. All transportation plan revisions must be found to conform before the transportation plan revisions are approved by the MPO or accepted by DOT, unless the revision merely adds or deletes exempt projects listed in sections *[(25)](26)* and *[(26)](27)* and has been made in accordance with the notification provisions of subparagraph (5)(C)1.E. of this rule. The conformity determination must be based on the transportation plan and the revision taken as a whole.

3. The MPO and DOT must determine the conformity of the transportation plan **(including a new regional emissions analysis)** no less frequently than every three (3) years. If more than three (3) years elapse after DOT's conformity determination without the MPO and DOT determining conformity of the transportation plan, the existing conformity determination will lapse.

(C) Frequency of Conformity Determinations for Transportation Improvement Programs.

1. A new TIP must be demonstrated to conform before the TIP

is approved by the MPO or accepted by DOT. The conformity determination must be completed in accordance with paragraph (5)(A)1. of this rule.

2. A TIP amendment requires a new conformity determination for the entire TIP before the amendment is approved by the MPO or accepted by DOT, unless the amendment merely adds or deletes exempt projects listed in section *[(25)](26)* or section *[(26)](27)* and has been made in accordance with the notification provisions of subparagraph (5)(C)1.E. of this rule. Any new conformity determination for a TIP amendment must be completed in accordance with paragraph (5)(A)1. of this rule.

3. The MPO and DOT must determine the conformity of the TIP **(including a new regional emissions analysis)** no less frequently than every three (3) years. If more than three (3) years elapse after DOT's conformity determination without the MPO and DOT determining conformity of the TIP, the existing conformity determination will lapse.

[4. After the MPO adopts a new or revised transportation plan, conformity of the TIP must be redetermined by the MPO and DOT within six (6) months from the date of DOT's conformity determination for the transportation plan, unless the new or revised plan merely adds or deletes exempt projects listed in sections (25) and (26) and has been made in accordance with the notification provisions of subparagraph (5)(C)1.E. of this rule. Otherwise, the existing conformity determination for the TIP will lapse.]

(D) Projects. FHWA/FTA projects must be found to conform before they are adopted, accepted, approved, or funded. Conformity must be redetermined for any FHWA/FTA project if **one (1) of the following occurs: a significant change in the project's design concept and scope; three (3) years *[have]* elapsed** since the most recent major step to advance the project; **or initiation of a supplemental environmental document for air quality purposes. Major steps include *[(NEPA process completion; start of final design; acquisition of a significant portion of the right-of-way; and, construction (including federal *[or]* approval of *[the]* plans, specifications and estimates) *[occurred]*.***

(E) Triggers for Transportation Plan and TIP Conformity Determinations. Conformity of existing transportation plans and TIPs must be redetermined within eighteen (18) months of the following, or the existing conformity determination will lapse, and no new project-level conformity determinations may be made until conformity of the transportation plan and TIP has been determined by the MPO and DOT—

[1. November 24, 1993;]

[2./1. The effective date of EPA's finding that motor vehicle emissions budgets from an initially submitted control strategy *[implementation]* **implementation** plan or maintenance plan are adequate pursuant to subsection *[(17)](18)*(E) and can be used for transportation conformity purposes;

[3./2. **The effective date of EPA approval of a control strategy implementation plan revision or maintenance plan which establishes or revises a motor vehicle emissions budget if that budget has not yet been used in a conformity determination prior to approval; and**

[4. EPA approval of an implementation plan revision that adds, deletes, or changes TCMs; and]

[5./3. **The effective date of EPA promulgation of an implementation plan which establishes or revises a motor vehicle budget *[or adds, deletes, or changes TCMs]*.**

(5) Consultation.

(A) General. Procedures for interagency consultation (federal, state and local), resolution of conflicts, and public consultation are described in subsections (A) through (F) of this section. Public consultation procedures meet the requirements for public involvement in 23 CFR part 450.

1. The implementation plan revision required shall include procedures for interagency consultation (federal, state, and local), resolution of conflicts, and public consultation as described in subsections (A) through (E) of this section. Public consultation procedures will be developed in accordance with the requirements for public involvement in 23 CFR part 450.

[1.2. MPOs and state departments of transportation will provide reasonable opportunity for consultation with state air agencies, local air quality and transportation agencies, DOT, and EPA, including consultation on the issues described in paragraph (C)1. of this section, before making conformity determinations.

(C) Interagency Consultation Procedures—Specific Processes. Interagency consultation procedures shall also include the following specific processes:

1. An interagency consultation process in accordance with subsection (5)(B) of this rule involving the MPO, state and local air quality planning agencies, state and local transportation agencies, the EPA and the DOT shall be undertaken for the following (except where otherwise provided, the MPO shall be responsible for initiating the consultation process):

A. Evaluating and choosing a model (or models) and associated methods and assumptions to be used in hot-spot analyses and regional emissions analyses;

B. Determining which minor arterials and other transportation projects should be considered “regionally significant” for the purposes of regional emissions analysis (in addition to those functionally classified as principal arterial or higher or fixed guideway systems or extensions that offer an alternative to regional highway travel), and which projects should be considered to have a significant change in design concept and scope from the transportation plan or TIP;

C. Evaluating whether projects otherwise exempted from meeting the requirements of this rule under sections **[(25)/(26)]** and **[(26)/(27)]** should be treated as nonexempt in cases where potential adverse emissions impacts may exist for any reason;

D. Making a determination, required by paragraph (13)(C)1., whether past obstacles to implementation of TCMs which are behind the schedule established in the applicable implementation plan have been identified and are being overcome, and whether state and local agencies with influence over approvals or funding for TCMs are giving maximum priority to approval or funding for TCMs over other projects within their control. This process shall also consider whether delays in TCM implementation necessitate revisions to the applicable implementation plan to remove TCMs or substitute TCMs or other emission reduction measures;

E. Notification of transportation plan or TIP revisions or amendments which merely add or delete exempt projects listed in section **[(25)/(26)]** or section **[(26)/(27)]**. In any year when it is intended to prepare a transportation plan revision, TIP or TIP amendment that merely adds or deletes exempt projects, the MPO shall notify all consulting agencies in writing within seven (7) calendar days after taking action to approve such exempt projects. The notification shall include enough information about the exempt projects for the consulting agencies to determine their agreement or disagreement that the projects are exempt under section **[(25)/(26)]** or section **[(26)/(27)]** of this rule;

F. Determining whether a project is considered to be included in the regional emissions analysis supporting the currently conforming TIP’s conformity determination, even if the project is not strictly included in the TIP for the purposes of MPO project selection or endorsement, and whether the project’s design concept and scope have not changed significantly from those which were included in the regional emissions analysis, or in a manner which would significantly impact use of the facility;

G. Advising on the horizon years to be used for conformity determinations, in accordance with section (6) of this rule;

H. Advising whether the modeling methods and functional relationships used in the model are consistent with acceptable pro-

fessional practice and are reasonable for the purposes of emission estimation, as specified in section **[(21)/(22)]** of this rule;

I. Reviewing the models, databases and other requirements specified in section **[(22)/(23)]** of this rule and advising if there are grounds for recommending to the EPA regional administrator that these models, databases or requirements are inappropriate. In such an event, the consulting agencies shall propose alternative methods to satisfy the requirements for conformity in accordance with section **[(22)/(23)]**;

J. Determining what forecast of vehicle miles traveled to use in establishing or tracking motor vehicle emissions budgets, developing transportation plans, TIPs or applicable implementation plans, or in making conformity determinations;

K. Determining whether the project sponsor or the MPO has demonstrated that the requirements of sections (16)–**[(18)/(19)]** are satisfied without a particular mitigation or control measure, as provided in section **[(24)/(25)]**; *land*

L. Developing a list of TCMs to be included in the applicable implementation plan;

M. Identifying, as required by subsection (23)(B), projects located at sites in PM₁₀ nonattainment areas which have vehicle and roadway emission and dispersion characteristics which are essentially identical to those at sites which have violations verified by monitoring, and therefore require quantitative PM₁₀ hot-spot analysis; and

N. Choosing conformity tests and methodologies for isolated rural nonattainment and maintenance areas, as required by paragraph (9)(L)2;

2. An interagency consultation process in accordance with subsection (5)(B) involving the MPO, state and local air quality planning agencies and state and local transportation agencies for the following (except where otherwise provided, the MPO shall be responsible for initiating the consultation process):

A. Evaluating events which will trigger new conformity determinations in addition to those triggering events established in section (4). Any of the consulting agencies listed in paragraph (5)(B)3. may request that the MPO initiate the interagency consultation process to evaluate an event which should, in the opinion of the consulting agency, trigger a need for a conformity determination. The MPO shall initiate appropriate consultation with the other consulting agencies in response to such request, and shall notify the consulting agencies and the requesting agency in writing of its proposed action in response to this evaluation and consultation; and

B. Consulting on the procedures to be followed in performing emissions analysis for transportation activities which cross the borders of the MPO’s region or the St. Louis nonattainment area or air basin;

3. Consultation on nonfederal projects.

A. An interagency consultation process in accordance with subsection (5)(B) involving the MPO, state and local air quality agencies and state and local transportation agencies shall be undertaken to ensure that plans for construction of regionally significant projects which are not FHWA/FTA projects (including projects for which alternative locations, design concept and scope, or the no-build option are still being considered), including all those by recipients of funds designated under 23 U.S.C. or the Federal Transit Laws, are disclosed to the MPO on a regular basis, and to assure that any changes to those plans are immediately disclosed.

B. Notwithstanding the provisions of subparagraph (5)(C)3.A., it shall be the responsibility of the sponsor of any such regionally significant project, and of any agency that becomes aware of any such project through applications for approval, permitting or funding, to disclose such project to the MPO in a timely manner. Such disclosure shall be made not later than the first occasion on which any of the following actions is sought: any policy board action necessary for the project to proceed, the issuance of administrative permits for the facility or for construction of the facility, the execution of a contract to design or construct the facility, the execution of

any indebtedness for the facility, any final action of a board, commission or administrator authorizing or directing employees to proceed with design, permitting or construction of the project, or the execution of any contract to design or construct or any approval needed for any facility that is dependent on the completion of the regionally significant project.

C. Any such regionally significant project that has not been disclosed to the MPO in a timely manner shall be deemed not to be included in the regional emissions analysis supporting the conformity determination for the TIP and shall not be consistent with the motor vehicle emissions budget in the applicable implementation plan, for the purposes of section ~~/(20)/(21)~~ of this rule.

D. For the purposes of this section and of section ~~/(20)/(21)~~ of this rule, the phrase adopt or approve of a regionally significant project means the first time any action necessary to authorizing a project occurs, such as any policy board action necessary for the project to proceed, the issuance of administrative permits for the facility or for construction of the facility, the execution of a contract to construct the facility, any final action of a board, commission or administrator authorizing or directing employees to proceed with construction of the project, or any written decision or authorization from the MPO that the project may be adopted or approved;

4. This interagency consultation process involving the agencies specified in paragraph (5)(B)3. shall be undertaken for assuming the location and design concept and scope of projects which are disclosed to the MPO as required by paragraph (5)(C)3. but whose sponsors have not yet decided these features in sufficient detail to perform the regional emissions analysis according to the requirements of section ~~/(21)/(22)~~ of this rule. This process shall be initiated by the MPO;

5. The MPO shall undertake an on-going process of consultation with the agencies listed in paragraph (5)(B)3. for the design, schedule, and funding of research and data collection efforts and regional transportation model development by the MPO. This process shall, as far as practicable, be integrated with the cooperative development of the Unified Planning Work Program under 23 CFR section 450.314; and

6. This process insures providing final documents (including applicable implementation plans and implementation plan revisions) and supporting information to each agency after approval or adoption. This process is applicable to all agencies described in paragraph (A)1. of this section, including federal agencies.

(F) Interagency Consultation Procedures—Public Involvement.

1. The MPO shall establish and implement a proactive public involvement process which provides opportunity for public review and comment prior to taking formal action on a conformity determination for a transportation plan revision or a TIP. This process shall be consistent with the requirements of 23 CFR part 450, including sections 450.316(b)(1), 450.322(c) and 450.324(c).

2. The public involvement process may be fully integrated with the public involvement process for transportation plans and TIPs publicized under 23 CFR section 450.316(b)(1)(i) or may be established independently. In the case of an independent procedure, there shall be a minimum public comment period of forty-five (45) days before the public involvement process is initially adopted or revised. In either case, the following criteria shall apply:

A. The MPO shall provide timely information about the conformity process to interested parties and segments of the community potentially affected by conformity determinations or by programs and policies proposed to ensure conformity, and to the public in general;

B. The public shall be assured reasonable access to technical and policy information considered by the agency at the beginning of the public comment period and prior to taking formal action on a conformity determination for all transportation plans and TIPs, consistent with these requirements and those of 23 CFR 450.316(b);

C. The MPO shall ensure adequate public notice of public involvement activities and shall allow time for public review and

comment at key decision points including, but not limited to, any proposed determination of conformity;

D. The MPO shall demonstrate explicit consideration and response to public input received during the conformity determination process. When significant written and oral comments are received on a proposed determination of conformity as a result of the public involvement process, a summary, analysis and report on the disposition of comments shall be made part of the final conformity determination;

E. The MPO shall specifically address in writing all public comments that known plans for a regionally significant project which is not receiving FHWA or FTA funding or approval have not been properly reflected in the emissions analysis supporting a proposed conformity finding for a transportation plan or TIP; and

F. The MPO will, when imposing any charges for public inspections and copying, be consistent with the fee schedule contained in ~~/49 CFR 7.95/49 CFR 7.43~~.

3. The MPO and other agencies involved in conformity determinations shall also provide opportunity for public involvement in conformity determinations for projects to the extent otherwise required by law.

4. At such times as the MPO proposes to adopt or revise the public involvement process under paragraph (5)(F)2., the MPO shall consult with the agencies listed in paragraph (5)(B)3. on that public involvement process as it relates to conformity determinations. A minimum of forty-five (45) days shall be allowed for these agencies to respond. The MPO shall consider all comments made by the consulting agencies and shall provide each agency with a written statement of its response before moving to adopt the revised public involvement process.

5. In the first year after the adoption of this rule, if there is an approved public involvement process in force and the MPO has not proposed to revise that process, any consulting agency may request such a revision. The MPO shall consider this request and provide a written statement of its response to the requesting agency and other interested parties.

(6) Content of Transportation Plans.

(B) [Moderate Areas Reclassified to Serious. Ozone or CO nonattainment areas which are reclassified from moderate to serious and have an urbanized population greater than two hundred thousand (>200,000), must meet the requirements of subsection (6)(A) of this rule within two (2) years from the date of reclassification.] Two (2)-year grace period for transportation plan requirements in certain ozone and CO areas. The requirements of subsection (A) of this section apply to such areas or portions of such areas that have previously not been required to meet these requirements for any existing NAAQS two (2) years from the following:

1. The effective date of EPA's reclassification of an ozone or CO nonattainment area that has an urbanized area population greater than two hundred thousand (>200,000) to serious or above;

2. The official notice by the Census Bureau that determines the urbanized area population of a serious or above or CO nonattainment area to be greater than two hundred thousand (>200,000); or

3. The effective date of EPA's action that classifies a newly designated ozone or CO nonattainment area that has an urbanized area population greater than two hundred thousand (>200,000) as serious or above.

(C) Transportation Plans for Other Areas. Transportation plans for other areas must meet the requirements of subsection (6)(A) of this rule at least to the extent it has been the previous practice of the MPO to prepare plans which meet those requirements. Otherwise, transportation plans must describe the transportation system envisioned

for the future and must be sufficiently described within the transportation plans so that a conformity determination can be made according to the criteria and procedures of sections (9)–/(18)/(19).

(7) Relationship of Transportation Plan and TIP Conformity with the NEPA Process. The degree of specificity required in the transportation plan and the specific travel network assumed for air quality modeling do not preclude the consideration of alternatives in the NEPA process or other project development studies. Should the NEPA process result in a project with design concept and scope significantly different from that in the transportation plan or TIP, the project must meet the criteria in sections (9)–/(18)/(19) for projects not from a TIP before NEPA process completion.

(9) Criteria and Procedures for Determining Conformity of Transportation Plans, Programs, and Projects—General.

(A) In order for each transportation plan, program, and FHWA/FTA project to be found to conform, the MPO and DOT must demonstrate that the applicable criteria and procedures in sections (10)–/(18)/(19) as listed in Table 1 in subsection (9)(B) of this rule are satisfied, and the MPO and DOT must comply with all applicable conformity requirements of implementation plans and this rule and of court orders for the area which pertain specifically to conformity. The criteria for making conformity determinations differ based on the action under review (transportation plans, TIPs, and FHWA/FTA projects), the relevant pollutant(s), and the status of the implementation plan.

(B) *[The following t/***Table 1 in this section** *indicates the criteria and procedures in sections (10)–/(18)/(19) which apply for transportation plans, TIPs, and FHWA/FTA projects. Subsections (C) through (I) of this section explain/s/ when the budget, [and/ interim emissions, [reduction tests] and hot-spot tests are required for [ozone nonattainment and maintenance areas] each pollutant and NAAQS. Subsection (J) of this section addresses conformity requirements for areas with approved or adequate limited maintenance plans. Subsection (K) of this section addresses nonattainment and maintenance areas which EPA has determined have insignificant motor vehicle emissions. Subsection (L) of this section addresses isolated rural nonattainment and maintenance areas. Subsection (D) of this section explains when budget and emission reduction tests are required for CO nonattainment and maintenance areas. Table 1 follows:*

Table 1—Conformity Criteria

All Actions at /a/All /t/Times—

Section (10)	Latest planning assumptions
Section (11)	Latest emissions model
Section (12)	Consultation

Transportation Plan—

Subsection (13)(B)	TCMs
Section /(17)/(18) and/or Section/(18)/(19)	Emissions budget and/or interim /E/emissions [reduction]

TIP—

Subsection (13)(C)	TCMs
Section /(17)/(18) and/or Section /(18)/(19)	Emissions budget and/or interim /E/emissions [reduction]

Project (From a Conforming Plan and TIP)—

Section (14)	Currently conforming plan and TIP
Section (15)	Project from a conforming plan and TIP

Section (16)	CO and PM ₁₀ hot spots./
Section (17)	PM ₁₀ and PM _{2.5} control measures

Project (Not From a Conforming Plan and TIP)—

Subsection (13)(D)	TCMs
Section (14)	Currently conforming plan and TIP
Section (16)	CO and PM ₁₀ hot spots
Section (17)	PM ₁₀ and PM _{2.5} control measures
Section /(17)/(18) and/or Section /(18)/(19)	Emissions budget and/or interim /E/emissions [reduction]

(C) **One (1)-hour /O/ozone NAAQS /N/nonattainment and /M/maintenance /A/areas. This subsection applies when an area is nonattainment or maintenance for the one (1)-hour ozone NAAQS (i.e., until the effective date of any revocation of the one (1)-hour ozone NAAQS for an area).** In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in ozone nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions [reduction] tests are satisfied as described in the following:

1. In **all one (1)-hour** ozone nonattainment and maintenance areas the budget test must be satisfied as required by section /(17)/(18) for conformity determinations made **on or after—**

A. *[Forty-five (45) days after a control strategy implementation plan revision or maintenance plan has been submitted to EPA, unless EPA has declared the motor vehicle emissions budget inadequate for transportation conformity purposes; or] The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan for the one (1)-hour ozone NAAQS is adequate for transportation conformity purposes;*

B. *[After EPA has declared that the motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes.] The publication date of EPA's approval of such a budget in the Federal Register; or*

C. **The effective date of EPA's approval of such a budget in the Federal Register, if such approval is completed through direct final rulemaking.**

2. In ozone nonattainment areas that are required to submit a control strategy implementation plan revision **for the one (1)-hour ozone NAAQS** (usually moderate and above areas), the interim emissions [reduction] tests must be satisfied as required by section /(18)/(19) for conformity determinations made/—/when there is no approved motor vehicle emissions budget from an applicable implementation plan for the one (1)-hour ozone NAAQS and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan for the one (1)-hour ozone NAAQS.

[A. During the first forty-five (45) days after a control strategy implementation plan revision or maintenance plan has been submitted to EPA, unless EPA has declared a motor vehicle emissions budget adequate for transportation conformity purposes; or

B. If EPA has declared the motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan inadequate for transportation conformity purposes, and there is no previously established motor vehicle emissions budget in the approved implementation plan or a previously submitted control strategy implementation plan revision or maintenance plan.]

3. An ozone nonattainment area must satisfy the **interim emissions [reduction]** test for NO_x, as required by section /(18)/(19), if the implementation plan or plan submission that is applicable for the

purposes of conformity determinations is a fifteen percent (15%) plan or Phase I attainment demonstration that does not include a motor vehicle emissions budget for NO_x . The implementation plan for the one (1)-hour ozone NAAQS will be considered to establish a motor vehicle emissions budget for NO_x if the implementation plan or plan submission contains an explicit NO_x motor vehicle emissions budget that is intended to act as a ceiling on future NO_x emissions, and the NO_x motor vehicle emissions budget is a net reduction from NO_x emissions levels in 1990.

4. Ozone nonattainment areas that have not submitted a maintenance plan and that are not required to submit a control strategy implementation plan revision for the one (1)-hour ozone NAAQS (usually marginal and below areas) must satisfy one (1) of the following requirements:/—

A. The interim emissions [reduction] tests required by section [(17)](19); or

B. The state shall submit to EPA an implementation plan revision for the one (1)-hour NAAQS that contains motor vehicle emissions budget(s) and [an] a reasonable further progress or attainment demonstration, and the budget test required by section [(17)](18) must be satisfied using the [submitted] adequate or approved motor vehicle emissions budget(s) (as described in paragraph (C)1. of this section).

5. Notwithstanding paragraphs (C)1. and (C)2. of this section, moderate and above ozone nonattainment areas with three (3) years of clean data for the one (1)-hour ozone NAAQS that have not submitted a maintenance plan and that EPA has determined are not subject to the Clean Air Act reasonable further progress and attainment demonstration requirements for the one (1)-hour ozone NAAQS must satisfy one (1) of the following requirements:/—

A. The interim emissions [reduction] tests as required by section [(17)](19);

B. The budget test as required by section [(17)](18), using the adequate or approved motor vehicle emissions budgets in the submitted or applicable control strategy implementation plan for the one (1)-hour ozone NAAQS (subject to the timing requirements of paragraph (C)1. of this section); or

C. The budget test as required by section [(17)](18), using the motor vehicle emissions of ozone precursors in the most recent year of clean data as motor vehicle emissions budgets, if such budgets are established by the EPA rulemaking that determines that the area has clean data for the one (1)-hour ozone NAAQS.

(D) Eight (8)-hour ozone NAAQS nonattainment and maintenance areas without motor vehicle emissions budgets for the one (1)-hour ozone NAAQS for any portion of the eight (8)-hour nonattainment area. This subsection applies to areas that were never designated nonattainment for the one (1)-hour ozone NAAQS and areas that were designated nonattainment for the one (1)-hour ozone NAAQS but that never submitted a control strategy SIP or maintenance plan with approved or adequate motor vehicle emissions budgets. This subsection applies one (1) year after the effective date of EPA's nonattainment designation for the eight (8)-hour ozone NAAQS for an area, according to subsection (2)(D). In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in such eight (8)-hour ozone nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions tests are satisfied as described in the following:

1. In such eight (8)-hour ozone nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made on or after—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan for the eight (8)-hour ozone NAAQS is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking;

2. In ozone nonattainment areas that are required to submit a control strategy implementation plan revision for the eight (8)-hour ozone NAAQS (usually moderate and above and certain Clean Air Act, part D, subpart 1 areas), the interim emissions tests must be satisfied as required by section (19) for conformity determinations made when there is no approved motor vehicle emissions budget from an applicable implementation plan for the eight (8)-hour ozone NAAQS and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan for the eight (8)-hour ozone NAAQS;

3. Such an eight (8)-hour ozone nonattainment area must satisfy the interim emissions test for NO_x as required by section (19), if the implementation plan or plan submission that is applicable for the purposes of conformity determinations is a fifteen percent (15%) plan or other control strategy SIP that addresses reasonable further progress that does not include a motor vehicle emissions budget for NO_x . The implementation plan for the eight (8)-hour ozone NAAQS will be considered to establish a motor vehicle emissions budget for NO_x if the implementation plan submission contains an explicit NO_x motor vehicle emissions budget that is intended to act as a ceiling on future NO_x emissions, and the NO_x motor vehicle emissions budget is a net reduction from NO_x emissions levels in 2002;

4. Ozone nonattainment areas that have not submitted a maintenance plan and that are not required to submit a control strategy implementation plan revision for the eight (8)-hour ozone NAAQS (usually marginal and certain Clean Air Act, part D, subpart 1 areas) must satisfy one (1) of the following requirements—

A. The interim emissions tests required by section (19); or

B. The state shall submit to EPA an implementation plan revision for the eight (8)-hour ozone NAAQS that contains motor vehicle emissions budget(s) and a reasonable further progress or attainment demonstration, and the budget test required by section (18) must be satisfied using the adequate or approved motor vehicle emissions budget(s) (as described in paragraph (D)1. of this section);

5. Notwithstanding paragraphs (D)1. and (D)2. of this section, ozone nonattainment areas with three (3) years of clean data for the eight (8)-hour ozone NAAQS that have not submitted a maintenance plan and that EPA has determined are not subject to the Clean Air Act reasonable further progress and attainment demonstration requirements for the eight (8)-hour ozone NAAQS must satisfy one (1) of the following requirements—

A. The interim emissions tests as required by section (19);

B. The budget test as required by section (18), using the adequate or approved motor vehicle emissions budgets in the submitted or applicable control strategy implementation plan for the eight (8)-hour ozone NAAQS (subject to the timing requirements of paragraph (D)1. of this section); or

C. The budget test as required by section (18), using the motor vehicle emissions of ozone precursors in the most recent year of clean data as motor vehicle emissions, if such budgets are established by the EPA rulemaking that determines that the area has clean data for the eight (8)-hour ozone NAAQS.

(E) Eight (8)-hour ozone NAAQS nonattainment and maintenance areas with motor vehicle emissions budgets for the one (1)-hour ozone NAAQS that cover all or a portion of the eight (8)-hour nonattainment area. This provision applies one (1) year after the effective date of EPA's nonattainment designation for

the eight (8)-hour ozone NAAQS for an area, according to subsection (2)(D). In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in such eight (8)-hour ozone nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions tests are satisfied as described in the following:

1. In such eight (8)-hour ozone nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made on or after—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan for the eight (8)-hour ozone NAAQS is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking;

2. Prior to paragraph (E)1. of this section applying, the following test(s) must be satisfied, subject to the exception in subparagraph (E)2.E.—

A. If the eight (8)-hour ozone nonattainment area covers the same geographic area as the one (1)-hour ozone nonattainment or maintenance area(s), the budget test as required by section (18) using the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission;

B. If the eight (8)-hour ozone nonattainment area covers a smaller geographic area within the one (1)-hour ozone nonattainment or maintenance area(s), the budget test as required by section (18) for either—

(I) The eight (8)-hour nonattainment area using corresponding portion(s) of the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission where such portion(s) can reasonably be identified through the interagency consultation process required by section (5); or

(II) The one (1)-hour nonattainment area using the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission. If additional emissions reductions are necessary to meet the budget test for the eight (8)-hour ozone NAAQS in such cases, these emissions reductions must come from within the eight (8)-hour nonattainment area;

C. If the eight (8)-hour ozone nonattainment area covers a larger geographic area and encompasses the entire one (1)-hour ozone nonattainment or maintenance area(s)—

(I) The budget test as required by section (18) for the portion of the eight (8)-hour ozone nonattainment area covered by the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission; and

(II) The interim emissions tests as required by section (19) for either—the portion of the eight (8)-hour ozone nonattainment area not covered by the approved or adequate budgets in the one (1)-hour ozone implementation plan, the entire eight (8)-hour ozone nonattainment area, or the entire portion of the eight (8)-hour ozone nonattainment area within an individual state, in the case where separate one (1)-hour SIP budgets are established for each state of a multistate one (1)-hour nonattainment or maintenance area;

D. If the eight (8)-hour ozone nonattainment area partially covers a one (1)-hour ozone nonattainment or maintenance area(s)—

(I) The budget test as required by section (18) for the portion of the eight (8)-hour ozone nonattainment area covered

by the corresponding portion of the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan or implementation plan submission where they can be reasonably identified through the interagency consultation process required by section (5); and

(II) The interim emissions tests as required by section (19), when applicable, for either—the portion of the eight (8)-hour ozone nonattainment area not covered by the approved or adequate budgets in the one (1)-hour ozone implementation plan, the entire eight (8)-hour ozone nonattainment area, or the entire portion of the eight (8)-hour ozone nonattainment area within an individual state, in the case where separate one (1)-hour SIP budgets are established for each state in a multistate one (1)-hour nonattainment or maintenance area;

E. Notwithstanding paragraphs (E)2.A., B., C., or D. of this section, the interim emissions tests as required by section (19), where the budget test using the approved or adequate motor vehicle emissions budgets in the one (1)-hour ozone applicable implementation plan(s) or implementation plan submission(s) for the relevant area or portion thereof is not the appropriate test and the interim emissions tests are more appropriate to ensure that the transportation plan, TIP, or project not from a conforming plan and TIP will not create new violations, worsen existing violations, or delay timely attainment of the eight (8)-hour ozone standard, as determined through the interagency consultation process required by section (5);

3. Such an eight (8)-hour ozone nonattainment area must satisfy the interim emissions test for NO_x , as required by section (19), if the only implementation plan or plan submission that is applicable for the purposes of conformity determinations is a fifteen percent (15%) plan or other control strategy SIP that addresses reasonable further progress that does not include a motor vehicle emissions budget for NO_x . The implementation plan for the eight (8)-hour ozone NAAQS will be considered to establish a motor vehicle emissions budget for NO_x if the implementation plan or plan submission contains an explicit NO_x motor vehicle emissions budget that is intended to act as a ceiling on future NO_x emissions, and the NO_x motor vehicle emissions budget is a net reduction from NO_x emissions levels in 2002. Prior to an adequate or approved NO_x motor vehicle emissions budget in the implementation plan submission for the eight (8)-hour ozone NAAQS, the implementation plan for the one (1)-hour ozone NAAQS will be considered to establish a motor vehicle emissions budget for NO_x if the implementation plan contains an explicit NO_x motor vehicle emissions budget that is intended to act as a ceiling on future NO_x emissions, and the NO_x motor vehicle emissions budget is a net reduction from NO_x emissions levels in 1990; and

4. Notwithstanding paragraphs (E)1. and (E)2. of this section, ozone nonattainment areas with three (3) years of clean data for the eight (8)-hour ozone NAAQS that have not submitted a maintenance plan and that EPA has determined are not subject to the Clean Air Act reasonable further progress and attainment demonstration requirements for the eight (8)-hour ozone NAAQS must satisfy one (1) of the following requirements—

A. The budget test and/or interim emissions tests as required by sections (18) and (19) and as described in paragraph (E)2. of this section;

B. The budget test as required by section (18), using the adequate or approved motor vehicle emissions budgets in the submitted or applicable control strategy implementation plan for the eight (8)-hour ozone NAAQS (subject to the timing requirements of paragraph (E)1. of this section); or

C. The budget test as required by section (18), using the motor vehicle emissions of ozone precursors in the most recent year of clean data as motor vehicle emissions budgets, if such budgets are established by the EPA rulemaking that determines that the area has clean data for the eight (8)-hour ozone NAAQS.

[(D)](F) CO nonattainment and maintenance areas. In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in CO nonattainment and maintenance areas conformity determinations must include a demonstration that the hot-spot, budget and/or **interim** emissions *[reduction]* tests are satisfied as described in the following:

1. FHWA/FTA projects in CO nonattainment or maintenance areas must satisfy the hot-spot test required by section (16) at all times. Until a CO attainment demonstration or maintenance plan is approved by EPA, FHWA/FTA projects must also satisfy the hot-spot test required by subsection (16)(B).

2. In CO nonattainment and maintenance areas the budget test must be satisfied as required by section *[(17)](18)* for conformity determinations made **on or after**—

A. *Forty-five (45) days after a control strategy implementation plan revision or maintenance plan has been submitted to EPA, unless EPA has declared the motor vehicle emissions budget inadequate for transportation conformity purposes; or* The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;

B. *After EPA has declared that the motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes.* The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

3. Except as provided in paragraph *[(D)4.](F)4.* of this section, in CO nonattainment areas the **interim** emissions *[reduction]* tests must be satisfied as required by section *[(18)](19)* for conformity determinations made **when there is no approved motor vehicle emissions budget from an applicable implementation plan and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan**—].

[A. During the first forty-five (45) days after a control strategy implementation plan revision or maintenance plan has been submitted to EPA, unless EPA has declared a motor vehicle emissions budget adequate for transportation conformity purposes; or

B. If EPA has declared the motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan inadequate for transportation conformity purposes, and there is no previously established motor vehicle emissions budget in the approved implementation plan or a previously submitted control strategy implementation plan revision or maintenance plan.]

4. CO nonattainment areas that have not submitted a maintenance plan and that are not required to submit an attainment demonstration (e.g., moderate CO areas with a design value of 12.7 ppm or less or not classified CO areas) must satisfy one of the following requirements:

A. The **interim** emissions *[reduction]* tests required by section *[(18)](19)*; or

B. The state shall submit to EPA an implementation plan revision that contains motor vehicle emissions budget(s) and an attainment demonstration, and the budget test required by section *[(17)](18)* must be satisfied using the *[submitted]* **adequate or approved** motor vehicle emissions budget(s) (as described in paragraph *[(D)2.](F)2.* of this section).

(G) **PM₁₀** nonattainment and maintenance areas. In addition to the criteria listed in Table 1 of subsection (B) of this section that are required to be satisfied at all times, in **PM₁₀** nonattainment and maintenance areas conformity determinations must

include a demonstration that the hot-spot, budget and/or interim emissions tests are satisfied as described in the following:

1. FHWA/FTA projects in **PM₁₀** nonattainment or maintenance areas must satisfy the hot-spot test required by subsection (16)(A).

2. In **PM₁₀** nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made **on or after**—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

3. In **PM₁₀** nonattainment areas the interim emissions tests must be satisfied as required by section (19) for conformity determinations made—

A. If there is no approved motor vehicle emissions budget from an applicable implementation plan and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan; or

B. If the submitted implementation plan revision is a demonstration of impracticability under CAA section 189(a)(1)(B)(ii) and does not demonstrate attainment.

(H) **NO₂** nonattainment and maintenance areas. In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in **NO₂** nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions tests are satisfied as described in the following:

1. In **NO₂** nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made **on or after**—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

2. In **NO₂** nonattainment areas the interim emissions tests must be satisfied as required by section (19) for conformity determinations made **when there is no approved motor vehicle emissions budget from an applicable implementation plan and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan**.

(I) **PM_{2.5}** nonattainment and maintenance areas. In addition to the criteria listed in Table 1 in subsection (B) of this section that are required to be satisfied at all times, in **PM_{2.5}** nonattainment and maintenance areas conformity determinations must include a demonstration that the budget and/or interim emissions tests are satisfied as described in the following:

1. In **PM_{2.5}** nonattainment and maintenance areas the budget test must be satisfied as required by section (18) for conformity determinations made **on or after**—

A. The effective date of EPA's finding that a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan is adequate for transportation conformity purposes;

B. The publication date of EPA's approval of such a budget in the *Federal Register*; or

C. The effective date of EPA's approval of such a budget in the *Federal Register*, if such approval is completed through direct final rulemaking.

2. In PM_{2.5} nonattainment areas the interim emissions tests must be satisfied as required by section (19) for conformity determinations made if there is no approved motor vehicle emissions budget from an applicable implementation plan and no adequate motor vehicle emissions budget from a submitted control strategy implementation plan revision or maintenance plan.

(J) Areas with limited maintenance plans. Notwithstanding the other subsections of this section, an area is not required to satisfy the regional emissions analysis for section (18) and/or section (19) for a given pollutant and NAAQS, if the area has an adequate or approved limited maintenance plan for such pollutant and NAAQS. A limited maintenance plan would have to demonstrate that it would be unreasonable to expect that such an area would experience enough motor vehicle emissions growth for a NAAQS violation to occur. A conformity determination that meets other applicable criteria in Table 1 of subsection (B) of this section is still required, including the hot-spot requirements for projects in CO and PM₁₀ areas.

(K) Areas with insignificant motor vehicle emissions. Notwithstanding the other subsections of this section, an area is not required to satisfy a regional emissions analysis for section (18) and/or section (19) for a given pollutant/precursor and NAAQS, if EPA finds through the adequacy or approval process that a SIP demonstrates that regional motor vehicle emissions are an insignificant contributor to the air quality problem for that pollutant/precursor and NAAQS. The SIP would have to demonstrate that it would be unreasonable to expect that such an area would experience enough motor vehicle emissions growth in that pollutant/precursor for a NAAQS violation to occur. Such a finding would be based on a number of factors, including the percentage of motor vehicle emissions in the context of the total SIP inventory, the current state of air quality as determined by monitoring data for that NAAQS, the absence of SIP motor vehicle control measures, and historical trends and future projections of the growth of motor vehicle emissions. A conformity determination that meets other applicable criteria in Table 1 of subsection (B) of this section is still required, including regional emissions analyses for section (18) and/or section (19) for other pollutants/precursors and NAAQS that apply. Hot-spot requirements for projects in CO and PM₁₀ areas in section (16) must also be satisfied, unless EPA determines that the SIP also demonstrates that projects will not create new localized violations and/or increase the severity or number of existing violations of such NAAQS. If EPA subsequently finds that motor vehicle emissions of a given pollutant/precursor are significant, this subsection would no longer apply for future conformity determinations for that pollutant/precursor and NAAQS.

(L) Isolated rural nonattainment and maintenance areas. This subsection applies to any nonattainment or maintenance area (or portion thereof) which does not have a metropolitan transportation plan or TIP and whose projects are not part of the emissions analysis of any MPO's metropolitan transportation plan or TIP. This subsection does not apply to "donut" areas which are outside the metropolitan planning boundary and inside the nonattainment/maintenance area boundary.

1. FHWA/FTA projects in all isolated rural nonattainment and maintenance areas must satisfy the requirements of sections (10), (11), (12), (16), and (17) and subsection (13)(D). Until EPA approves the control strategy implementation plan or maintenance plan for a rural CO nonattainment or maintenance area, FHWA/FTA projects must also satisfy the requirements of subsection (16)(B) ("Localized CO and PM₁₀ violations (hot spots)").

2. Isolated rural nonattainment and maintenance areas are subject to the budget and/or interim emissions tests as described in subsections (C) through (K) of this section, with the following

modifications—

A. When the requirements of sections (18) and (19) apply to isolated rural nonattainment and maintenance areas, references to "transportation plan" or "TIP" should be taken to mean those projects in the statewide transportation plan or statewide TIP which are in the rural nonattainment or maintenance area.

B. In isolated rural nonattainment and maintenance areas that are subject to section (18), FHWA/FTA projects must be consistent with motor vehicle emissions budget(s) for the years in the time frame of the attainment demonstration or maintenance plan. For years after the attainment year (if a maintenance plan has not been submitted) or after the last year of the maintenance plan, FHWA/FTA projects must satisfy one (1) of the following requirements—

(I) Section (18);

(II) Section (19) (including regional emissions analysis for NO_x in all ozone nonattainment and maintenance areas, notwithstanding paragraph (19)(F)2.); or

(III) As demonstrated by the air quality dispersion model or other air quality modeling technique used in the attainment demonstration or maintenance plan, the FHWA/FTA project, in combination with all other regionally significant projects expected in the area in the time frame of the statewide transportation plan, must not cause or contribute to any new violation of any standard in any areas; increase the frequency or severity of any existing violation of any standard in any area; or delay timely attainment of any standard or any required interim emission reductions or other milestones in any area. Control measures assumed in the analysis must be enforceable.

C. The choice of requirements in subparagraph (L)2.B. of this section and the methodology used to meet the requirements of part (L)2.B.(III) of this section must be determined through the interagency consultation process required in subparagraph (5)(C)1.G. through which the relevant recipients of Title 23 U.S.C. or Federal Transit Laws funds, the local air quality agency, the state air quality agency, and the state department of transportation should reach consensus about the option and methodology selected. EPA and DOT must be consulted through this process as well. In the event of unresolved disputes, conflicts may be escalated to the governor consistent with the procedure in subsection (5)(D), which applies for any state air agency comments on a conformity determination.

(10) Criteria and Procedures—Latest Planning Assumptions.

(A) *[The conformity determination, with respect to all other applicable criteria in sections (11)–(18), must be based upon the most recent planning assumptions in force at the time of the conformity determination. The conformity determination must satisfy the requirements of subsections (10)(B)–(F).]* Except as provided in this paragraph, the conformity determination, with respect to all other applicable criteria in sections (11)–(19), must be based upon the most recent planning assumptions in force at the time the conformity analysis begins. The conformity determination must satisfy the requirements of subsections (10)(B)–(F) of this rule using the planning assumptions available at the time the conformity analysis begins as determined through the interagency consultation process required in section (5). The "time the conformity analysis begins" for a transportation plan or TIP determination is the point at which the MPO or other designated agency begins to model the impact of the proposed transportation plan or TIP on travel and/or emissions. New data that becomes available after an analysis begins is required to be used in the conformity determination only if a significant delay in the analysis has occurred, as determined through interagency consultation.

(15) Criteria and Procedures—Projects From a Plan and TIP.

(C) A project is considered to be from a conforming program if the following conditions are met:

1. The project is included in the conforming TIP and the design concept and scope of the project were adequate at the time of the TIP conformity determination to determine its contribution to the TIP's regional emissions, and the project design concept and scope have not changed significantly from those which were described in the TIP; and

2. If the TIP describes a project design concept and scope which includes project-level emissions mitigation or control measures, written commitments to implement such measures must be obtained from the project sponsor and/or operator as required by subsection *[(24)](25)(A)* in order for the project to be considered from a conforming program. Any change in these mitigation or control measures that would significantly reduce their effectiveness constitutes a change in the design concept and scope of the project.

(16) Criteria and Procedures—Localized CO and PM₁₀ Violations (Hot Spots).

(A) This subsection applies at all times. The FHWA/FTA project must not cause or contribute to any new localized CO or PM₁₀ violations or increase the frequency or severity of any existing CO or PM₁₀ violations in CO and PM₁₀ nonattainment and maintenance areas. This criterion is satisfied if it is demonstrated that **during the time frame of the transportation plan (or regional emissions analysis)** no new local violations will be created and the severity or number of existing violations will not be increased as a result of the project. The demonstration must be performed according to the consultation requirements of subparagraph (5)(C)1.A. and the methodology requirements of section *[(22)](23)*.

(B) This subsection applies for CO nonattainment areas as described in paragraph (9)(D)1. Each FHWA/FTA project must eliminate or reduce the severity and number of localized CO violations in the area substantially affected by the project (in CO nonattainment areas). This criteria is satisfied with respect to existing localized CO violations if it is demonstrated that **during the time frame of the transportation plan (or regional emissions analysis)** existing localized CO violations will be eliminated or reduced in severity and number as a result of the project. The demonstration must be performed according to the consultation requirements of subparagraph (5)(C)1.A. and the methodology requirements of section *[(22)](23)*.

(17) Criteria and Procedures—Compliance with PM₁₀ and PM_{2.5} Control Measures. The FHWA/FTA project must comply with any PM₁₀ and PM_{2.5} control measures in the applicable implementation plan. This criterion is satisfied if the project-level conformity determination contains a written commitment from the project sponsor to include in the final plans, specifications, and estimates for the project those control measures (for the purpose of limiting PM₁₀ and PM_{2.5} emissions from the construction activities and/or normal use and operation associated with the project) that are contained in the applicable implementation plan.

***[(17)](18)* Criteria and Procedures—Motor Vehicle Emissions Budget.**

(A) The transportation plan, TIP, and project not from a conforming transportation plan and TIP must be consistent with the motor vehicle emissions budget(s) in the applicable implementation plan (or implementation plan submission). This criterion applies as described in subsections (9)(C) **through (L)**. This criterion is satisfied if it is demonstrated that emissions of the pollutants or pollutant precursors described in subsection (C) of this section are less than or equal to the motor vehicle emissions budget(s) established in the applicable implementation plan or implementation plan submission.

(B) Consistency with the motor vehicle emissions budget(s) must be demonstrated for each year for which the applicable (and/or submitted) implementation plan specifically establishes motor vehicle emissions budget(s), **for the attainment year (if it is within the time frame of the transportation plan)** for the last year of the transportation plan's forecast period, and for any intermediate years as necessary so that the years for which consistency is demonstrated are no more than ten (10) years apart, as follows:

1. Until a maintenance plan is submitted—

A. Emissions in each year (such as milestone years and the attainment year) for which the control strategy implementation plan revision establishes motor vehicle emissions budget(s) must be less than or equal to that year's motor vehicle emissions budget(s); and

B. Emissions in years for which no motor vehicle emissions budget(s) are specifically established must be less than or equal to the motor vehicle emissions budget(s) established for the most recent prior year. For example, emissions in years after the attainment year for which the implementation plan does not establish a budget must be less than or equal to the motor vehicle emissions budget(s) for the attainment year.

2. When a maintenance plan has been submitted—

A. Emissions must be less than or equal to the motor vehicle emissions budget(s) established for the last year of the maintenance plan, and for any other years for which the maintenance plan establishes motor vehicle emissions budgets. If the maintenance plan does not establish motor vehicle emissions budgets for any years other than the last year of the maintenance plan, the demonstration of consistency with the motor vehicle emissions budget(s) must be accompanied by a qualitative finding that there are no factors which would cause or contribute to a new violation or exacerbate an existing violation in the years before the last year of the maintenance plan. The interagency consultation process required by section (5) shall determine what must be considered in order to make such a finding;

B. For years after the last year of the maintenance plan, emissions must be less than or equal to the maintenance plan's motor vehicle emissions budget(s) for the last year of the maintenance plan; *[and]*

C. If an approved **and/or submitted** control strategy implementation plan has established motor vehicle emissions budgets for years in the time frame of the transportation plan, emissions in these years must be less than or equal to the control strategy implementation plan's motor vehicle emissions budget(s) for these years.; **and**

D. **For any analysis years before the last year of the maintenance plan, emissions must be less than or equal to the motor vehicle emissions budget(s) established for the most recent prior year.**

(D) Consistency with the motor vehicle emissions budget(s) must be demonstrated by including emissions from the entire transportation system, including all regionally significant projects contained in the transportation plan and all other regionally significant highway and transit projects expected in the nonattainment or maintenance area in the time frame of the transportation plan.

1. Consistency with the motor vehicle emissions budget(s) must be demonstrated with a regional emissions analysis that meets the requirements of section *[(21)](22)* and subparagraph (5)(C)1.A.

2. The regional emissions analysis may be performed for any years in the time frame of the transportation plan provided they are not more than ten (10) years apart and provided the analysis is performed for the attainment year (if it is in the time frame of the transportation plan) and the last year of the plan's forecast period. Emissions in years for which consistency with motor vehicle emissions budgets must be demonstrated, as required in subsection (B) of this section, may be determined by interpolating between the years for which the regional emissions analysis is performed.

(E) Motor Vehicle Emissions Budgets in Submitted Control Strategy Implementation Plan Revisions and Submitted Maintenance Plans.

1. Consistency with the motor vehicle emissions budgets in submitted control strategy implementation plan revisions or maintenance plans must be demonstrated if EPA has declared the motor vehicle emissions budget(s) adequate for transportation conformity purposes, *[or beginning forty-five (45) days after the control strategy implementation plan revision or maintenance plan has been submitted (unless EPA has declared the motor vehicle emissions budget(s) inadequate for transportation conformity purposes)]. However, submitted implementation plans do not supercede the motor vehicle emissions budgets in approved implementation plans for the period of years addressed by the approved implementation plan.] and the adequacy finding is effective. However, motor vehicle emissions budgets in submitted implementation plans do not supercede the motor vehicle emissions budgets in approved implementation plans for the same Clean Air Act requirement and the period of years addressed by the previously approved implementation plan, unless EPA specifies otherwise in its approval of a SIP.*

2. If EPA has **not** declared an implementation plan submission's motor vehicle emissions budget(s) *[inadequate]* adequate for transportation conformity purposes, the *[inadequate]* budget(s) shall not be used to satisfy the requirements of this section. Consistency with the previously established motor vehicle emissions budget(s) must be demonstrated. If there are no previous approved implementation plans or implementation plan submissions with **adequate** motor vehicle emissions budgets, the **interim** emissions *[reduction]* tests required by section *[(18)](19)* must be satisfied.

3. If EPA declares an implementation plan submission's motor vehicle emissions budget(s) inadequate for transportation conformity purposes *[more than forty-five (45) days after its submission to EPA]* after EPA had previously found the budget(s) adequate, and conformity of a transportation plan or TIP has already been determined by DOT using the budget(s), the conformity determination will remain valid. Projects included in that transportation plan or TIP could still satisfy sections (14) and (15), which require a currently conforming transportation plan and TIP to be in place at the time of a project's conformity determination and that projects come from a conforming transportation plan and TIP.

4. EPA will not find a motor vehicle emissions budget in a submitted control strategy implementation plan revision or maintenance plan to be adequate for transportation conformity purposes unless the following minimum criteria are satisfied:

A. The submitted control strategy implementation plan revision or maintenance plan was endorsed by the governor (or his or her designee) and was subject to a state public hearing;

B. Before the control strategy implementation plan or maintenance plan was submitted to EPA, consultation among federal, state, and local agencies occurred; full implementation plan documentation was provided to EPA; and EPA's stated concerns, if any, were addressed;

C. The motor vehicle emissions budget(s) is clearly identified and precisely quantified;

D. The motor vehicle emissions budget(s), when considered together with all other emissions sources, is consistent with applicable requirements for reasonable further progress, attainment, or maintenance (whichever is relevant to the given implementation plan submission);

E. The motor vehicle emissions budget(s) is consistent with and clearly related to the emissions inventory and the control measures in the submitted control strategy implementation plan revision or maintenance plan; and

F. Revisions to previously submitted control strategy implementation plans or maintenance plans explain and document any changes to previously submitted budgets and control measures; impacts on point and area source emissions; any changes to established safety margins (see section (1) for definition); and reasons for the changes (including the basis for any changes related to emission factors or estimates of vehicle miles traveled).

5. Before determining the adequacy of a submitted motor vehicle emissions budget, EPA will review the state's compilation of public comments and response to comments that are required to be submitted with any implementation plan. EPA will document its consideration of such comments and responses in a letter to the state indicating the adequacy of the submitted motor vehicle emissions budget.

6. When the motor vehicle emissions budget(s) used to satisfy the requirements of this section are established by an implementation plan submittal that has not yet been approved or disapproved by EPA, the MPO and DOT's conformity determinations will be deemed to be a statement that the MPO and DOT are not aware of any information that would indicate that emissions consistent with the motor vehicle emissions budget will cause or contribute to any new violation of any standard; increase the frequency or severity of any existing violation of any standard; or delay timely attainment of any standard or any required interim emission reductions or other milestones.

(F) **Adequacy review process for implementation plan submissions.** EPA will use the procedure listed in paragraph (18)(F)1. or (18)(F)2. of this section to review the adequacy of an implementation plan submission—

1. When EPA reviews the adequacy of an implementation plan submission prior to EPA's final action on the implementation plan—

A. EPA will notify the public through EPA's website when EPA receives an implementation plan submission that will be reviewed for adequacy.

B. The public will have a minimum of thirty (30) days to comment on the adequacy of the implementation plan submission. If the complete implementation plan is not accessible electronically through the Internet and a copy is requested within fifteen (15) days of the date of the website notice, the comment period will be extended for thirty (30) days from the date that a copy of the implementation plan is mailed.

C. After the public comment period closes, EPA will inform the state in writing whether EPA has found the submission adequate or inadequate for use in transportation conformity, including response to any comments submitted directly and review of comments submitted through the state process, or EPA will include the determination of adequacy or inadequacy in a proposed or final action approving or disapproving the implementation plan under subparagraph (18)(F)2.C. of this section.

D. EPA will establish a *Federal Register* notice to inform the public of EPA's finding. If EPA finds the submission adequate, the effective date of this finding will be fifteen (15) days from the date the notice is published as established in the *Federal Register* notice, unless EPA is taking a final approval action on the SIP as described in subparagraph (18)(F)2.C. of this section.

E. EPA will announce whether the implementation plan submission is adequate or inadequate for use in transportation conformity on EPA's website. The website will also include EPA's response to comments if any comments were received during the public comment period.

F. If after EPA has found a submission adequate, EPA has cause to reconsider this finding, EPA will repeat actions described in subparagraphs (18)(F)1.A. through E. or paragraph (18)(F)2. of this section unless EPA determines that there is no need for additional public comment given the deficiencies of the implementation plan submission. In all cases where EPA reverses its previous finding to a finding of inadequacy under paragraph (18)(F)1. of this section, such a finding will become effective immediately upon the date of EPA's letter to the state.

G. If after EPA has found a submission inadequate, EPA has cause to reconsider the adequacy of that budget, EPA will repeat actions described in subparagraphs (18)(F)1.A. through E. or paragraph (18)(F)2. of this section.

2. When EPA reviews the adequacy of an implementation plan submission simultaneously with EPA's approval or disapproval of the implementation plan—

A. EPA's *Federal Register* notice of proposed or direct final rulemaking will serve to notify the public that EPA will be reviewing the implementation plan submission for adequacy.

B. The publication of the notice of proposed rulemaking will start a public comment period of at least thirty (30) days.

C. EPA will indicate whether the implementation plan submission is adequate and thus can be used for conformity either in EPA's final rulemaking or through the process described in subparagraphs (18)(F)1.C. through E. of this section. If EPA makes an adequacy finding through a final rulemaking that approves the implementation plan submission, such a finding will become effective upon the publication of EPA's approval in the *Federal Register*, or upon the effective date of EPA's approval if such action is conducted through direct final rulemaking. EPA will respond to comments received directly and review comments submitted through the state process and include the response to comments in the applicable docket.

[(18)](19) Criteria and Procedures—Interim Emissions [Reductions] in Areas without Motor Vehicle Emissions Budgets.

(A) The transportation plan, TIP, and project not from a conforming transportation plan and TIP *[must contribute to emissions reductions]* satisfy the interim emissions test(s) as described in subsections (9)(C) through (L). This criterion applies *[as described in subsection (9)(C). It applies]* to the net effect of the action (transportation plan, TIP, or project not from a conforming transportation plan and TIP) on motor vehicle emissions from the entire transportation system.

(B) *[This criterion may be met in moderate and above ozone nonattainment areas that are subject to the reasonable further progress requirements of CAA section 182(b)(1) and in moderate with design value greater than 12.7 ppm and serious CO nonattainment areas if a regional emissions analysis that satisfies the requirements of section (21) and subsections (E) through (H) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (D) of this section—]* Ozone areas. The requirements of this paragraph apply to all one (1)-hour ozone and eight (8)-hour ozone NAAQS areas, except for certain requirements as indicated. This criterion may be met—

1. *[The emissions predicted in the "Action" scenario are less than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; and]* In moderate and above ozone nonattainment areas that are subject to the reasonable further progress requirements of CAA section 182(b)(1) if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) through (J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (F) of this section—

[2. The emissions predicted in the "Action" scenario are lower than 1990 emissions by any nonzero amount.]

A. The emissions predicted in the "Action" scenario are less than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; and

B. The emissions predicted in the "Action" scenario are lower than—

(I) 1990 emissions by any nonzero amount, in areas for the one (1)-hour ozone NAAQS as described in subsection (9)(C); or

(II) 2002 emissions by any nonzero amount, in areas for the eight (8)-hour ozone NAAQS as described in subsections (9)(D) and (E).

2. In marginal and below ozone nonattainment areas and

other ozone nonattainment areas that are not subject to the reasonable further progress requirements of CAA section 182(b)(1) if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) through (J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (F) of this section—

A. The emissions predicted in the "Action" scenario are not greater than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; or

B. The emissions predicted in the "Action" scenario are not greater than—

(I) 1990 emissions, in areas for the one (1)-hour ozone NAAQS as described in subsection (9)(C); or

(II) 2002 emissions, in areas for the eight (8)-hour ozone NAAQS as described in subsections (9)(D) and (E).

(C) CO areas. This criterion may be met—

1. In moderate areas with design value greater than 12.7 ppm and serious CO nonattainment areas that are subject to CAA section 187(a)(7) if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) through (J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (F) of this section—

A. The emissions predicted in the "Action" scenario are less than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; and

B. The emissions predicted in the "Action" scenario are lower than 1990 emissions by any nonzero amount.

2. In moderate areas with design value less than 12.7 ppm and not classified CO nonattainment areas if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) through (J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection (F) of this section—

A. The emissions predicted in the "Action" scenario are not greater than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; or

B. The emissions predicted in the "Action" scenario are not greater than 1990 emissions.

[(C)](D) PM₁₀ and NO₂ areas. This criterion may be met in PM₁₀ and NO₂ nonattainment areas; *marginal and below ozone nonattainment areas and other ozone nonattainment areas that are not subject to the reasonable further progress requirements of CAA section 182(b)(1); and moderate with design value less than 12.7 ppm and below CO nonattainment areas if]* a regional emissions analysis that satisfies the requirements of section [(21)](22) and subsections [(E)](G) and [(F)](J) of this section demonstrates that for each analysis year and for each of the pollutants described in subsection [(D)](F) of this section, one (1) of the following requirements is met[:]—

1. The emissions predicted in the "Action" scenario are *[less]* not greater than the emissions predicted in the "Baseline" scenario, and this can be reasonably expected to be true in the periods between the analysis years; or

2. The emissions predicted in the "Action" scenario are not greater than baseline emissions. Baseline emissions are those estimated to have occurred during calendar year 1990, unless a conformity plan defines the baseline emissions for a PM₁₀ area to be those occurring in a different calendar year for which a baseline emissions inventory was developed for the purpose of developing a control strategy implementation plan.

(E) PM_{2.5} areas. This criterion may be met in PM_{2.5} nonattainment areas if a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) and (J) of this section demonstrates that for each analysis year and for each of

the pollutants described in paragraph (F) of this section, one of the following requirements is met—

1. The emissions predicted in the “Action” scenario are not greater than the emissions predicted in the “Baseline” scenario, and this can be reasonably expected to be true in the periods between the analysis years; or

2. The emissions predicted in the “Action” scenario are not greater than 2002 emissions.

[(D)](F) Pollutants. The regional emissions analysis must be performed for the following pollutants:

1. VOC in ozone areas;

2. NO_x in ozone areas, unless the EPA administrator determines that additional reductions of NO_x would not contribute to attainment;

3. CO in CO areas;

4. PM₁₀ in PM₁₀ areas;

5. [Transportation-related precursors of PM₁₀ in PM₁₀ nonattainment and maintenance areas] VOC and/or NO_x in PM₁₀ areas if the EPA regional administrator or the director of the state air agency has made a finding that one or both of such precursor emissions from within the area are a significant contributor to the PM₁₀ nonattainment problem and has so notified the MPO and DOT; [and]

6. NO_x in NO₂ areas./.;

7. PM_{2.5} in PM_{2.5} areas; and

8. Re-entrained road dust in PM_{2.5} areas only if the EPA regional administrator or the director of the state air agency has made a finding that emissions from re-entrained road dust within the area are a significant contributor to the PM_{2.5} nonattainment problem and has so notified the MPO and DOT.

[(E)](G) Analysis years.

1. The regional emissions analysis must be performed for analysis years that are no more than ten (10) years apart. The first analysis year must be no more than five (5) years beyond the year in which the conformity determination is being made. The last year of transportation plan’s forecast period must also be an analysis year.

2. For areas using subparagraphs (B)2.A., (C)2.A. and paragraphs (D)1. and (E)1. of this section, a regional emissions analysis that satisfies the requirements of section (22) and subsections (G) and (J) of this section would not be required for analysis years in which the transportation projects and planning assumption in the “Action” and “Baseline” scenarios are exactly the same. In such a case, subsection (A) of this section can be satisfied by documenting that the transportation projects and planning assumptions in both scenarios are exactly the same, and consequently, the emissions predicted in the “Action” scenario are not greater than the emissions predicted in the “Baseline” scenario for such analysis years.

[(F)](H) “Baseline” scenario. The regional emissions analysis required by subsections (B) [and (C)] through (E) of this section must estimate the emissions that would result from the “Baseline” scenario in each analysis year. The “Baseline” scenario must be defined for each of the analysis years. The “Baseline” scenario is the future transportation system that will result from current programs, including the following (except that exempt projects listed in section [(25)](26) and projects exempt from regional emissions analysis as listed in section [(26)](27) need not be explicitly considered):

1. All in-place regionally significant highway and transit facilities, services and activities;

2. All ongoing travel demand management or transportation system management activities; and

3. Completion of all regionally significant projects, regardless of funding source, which are currently under construction or are undergoing right-of-way acquisition (except for hardship acquisition and protective buying); come from the first year of the previously conforming transportation plan and/or TIP; or have completed the NEPA process.

[(G)](I) “Action” scenario. The regional emissions analysis required by subsections (B) [and (C)] through (E) of this section must estimate the emissions that would result from the “Action” scenario in each analysis year. The “Action” scenario must be defined for each of the analysis years. The “Action” scenario is the transportation system that would result from the implementation of the proposed action (transportation plan, TIP, or project not from a conforming transportation plan and TIP) and all other expected regionally significant projects in the nonattainment area. The “Action” scenario must include the following (except that exempt projects listed in section [(25)](26) and projects exempt from regional emissions analysis as listed in section [(26)](27) need not be explicitly considered):

1. All facilities, services, and activities in the “Baseline” scenario;

2. Completion of all TCMs and regionally significant projects (including facilities, services, and activities) specifically identified in the proposed transportation plan which will be operational or in effect in the analysis year, except that regulatory TCMs may not be assumed to begin at a future time unless the regulation is already adopted by the enforcing jurisdiction or the TCM is identified in the applicable implementation plan;

3. All travel demand management programs and transportation system management activities known to the MPO, but not included in the applicable implementation plan or utilizing any federal funding or approval, which have been fully adopted and/or funded by the enforcing jurisdiction or sponsoring agency since the last conformity determination;

4. The incremental effects of any travel demand management programs and transportation system management activities known to the MPO, but not included in the applicable implementation plan or utilizing any federal funding or approval, which were adopted and/or funded prior to the date of the last conformity determination, but which have been modified since then to be more stringent or effective;

5. Completion of all expected regionally significant highway and transit projects which are not from a conforming transportation plan and TIP; and

6. Completion of all expected regionally significant non-FHWA/FTA highway and transit projects that have clear funding sources and commitments leading toward their implementation and completion by the analysis year.

[(H)](J) Projects not from a conforming transportation plan and TIP. For the regional emissions analysis required by subsections (B) [and (C)] through (E) of this section, if the project which is not from a conforming transportation plan and TIP is a modification of a project currently in the plan or TIP, the “Baseline” scenario must include the project with its original design concept and scope, and the “Action” scenario must include the project with its new design concept and scope.

[(19)](20) Consequences of Controlled Strategy Implementation Plan Failures.

(A) Disapprovals.

1. If EPA disapproves any submitted control strategy implementation plan revision (with or without a protective finding) the conformity status of the transportation plan and TIP shall lapse on the date that highway sanctions as a result of the disapproval are imposed on the nonattainment area under section 179(b)(1) of the CAA. No new transportation plan, TIP, or project may be found to conform until another control strategy implementation plan revision fulfilling the same CAA requirements is submitted and conformity to this submission is determined.

2. If EPA disapproves a submitted control strategy implementation plan revision without making a protective finding, [then beginning one hundred twenty (120) days after such disapproval,

only projects in the first three (3) years of the currently conforming transportation plan and TIP may be found to conform. This means that beginning one hundred twenty (120) days after disapproval without a protective finding, no transportation plan, TIP, or project not in the first three (3) years of the currently conforming plan and TIP may be found to conform until another control strategy implementation plan revision fulfilling the same CAA requirements is submitted and conformity to this submission is determined. During the first one hundred twenty (120) days following EPA's disapproval without a protective finding, transportation plan, TIP, and project conformity determinations shall be made using the motor vehicle emissions budget(s) in the disapproved control strategy implementation plan revision, unless another control strategy implementation plan revision has been submitted and its motor vehicle emissions budget(s) applies for transportation conformity purposes pursuant to section (9).] only projects in the first three (3) years of the currently conforming transportation plan and TIP may be found to conform. This means that beginning on the effective date of disapproval without a protective finding, no transportation plan, TIP, or project not in the first three (3) years of the currently conforming transportation plan and TIP may be found to conform until another control strategy implementation plan revision fulfilling the same CAA requirements is submitted, EPA finds its motor vehicle emissions budget(s) adequate pursuant to section (18) of this rule or approves the submission, and conformity to the implementation plan revision is determined.

3. In disapproving a control strategy implementation plan revision, EPA would give a protective finding where a submitted plan contains adopted control measures or written commitments to adopt enforceable control measures that fully satisfy the emissions reductions requirements relevant to the statutory provision for which the implementation plan revision was submitted, such as reasonable further progress or attainment.

(B) Failure to Submit and Incompleteness. In areas where EPA notifies the state, MPO, and DOT of the state's failure to submit a control strategy implementation plan or submission of an incomplete control strategy implementation plan revision, (either of which initiates the sanction process under CAA section 179 or 110(m)), the conformity status of the transportation plan and TIP shall lapse on the date that highway sanctions are imposed on the nonattainment area for such failure under section 179(b)(1) of the CAA, unless the failure has been remedied and acknowledged by a letter from the EPA regional administrator.

(C) Federal Implementation Plans. If EPA promulgates a federal implementation plan that contains motor vehicle emissions budget(s) as a result of a state failure, the conformity lapse imposed by this section because of that state failure is removed.

[(20)](21) Requirements for Adoption or Approval of Projects by Other Recipients of Funds Designated Under Title 23 U.S.C. or the Federal Transit Laws. [No recipient of federal funds designated under Title 23 U.S.C. or the Federal Transit Laws shall adopt or approve a regionally significant highway or transit project, regardless of funding source, unless the recipient finds that the requirements of one of the following are met:]

(A) [The project was included in the first three (3) years of the most recently conforming transportation plan and TIP (or the conformity determination's regional emissions analyses), even if conformity status is currently lapsed; and the project's design concept and scope has not changed significantly from those analyses; or] Except as provided in subsection (B) of this section, no recipient of federal funds designated under Title 23 U.S.C. or the Federal Transit Laws shall adopt or approve a regionally significant highway or transit project, regardless of funding source, unless the recipient finds that the requirements of one (1) of the following are met:

1. The project comes from the currently conforming transportation plan and TIP, and the project's design concept and scope have not changed significantly from those which were included in the regional emissions analysis for that transportation plan and TIP;

2. The project is included in the regional emissions analysis for the currently conforming transportation plan and TIP conformity determination (even if the project is not strictly included in the transportation plan or TIP for the purpose of MPO project selection or endorsement) and the project's design concept and scope have not changed significantly from those which were included in the regional emissions analysis; or

3. A new regional emissions analysis including the project and the currently conforming transportation plan and TIP demonstrates that the transportation plan and TIP would still conform if the project were implemented (consistent with the requirements of sections (18) and/or (19) for a project not from a conforming transportation plan and TIP).

(B) [There is a currently conforming transportation plan and TIP, and a new regional emissions analysis including the project and the currently conforming transportation plan and TIP demonstrates that the transportation plan and TIP would still conform if the project were implemented (consistent with the requirements of sections (17) and/or (18) for a project not from a conforming transportation plan and TIP).] In isolated rural nonattainment and maintenance areas subject to subsection (9)(A), no recipient of federal funds designated under Title 23 U.S.C. or the Federal Transit Laws shall adopt or approve a regionally significant highway or transit project, regardless of funding source, unless the recipient finds that the requirements of one (1) of the following are met:

1. The project was included in the regional emissions analysis supporting the most recent conformity determination that reflects the portion of the statewide transportation plan and statewide TIP which are in the nonattainment or maintenance area, and the project's design concept and scope has not changed significantly; or

2. A new regional emissions analysis including the project and all other regionally significant projects expected in the nonattainment or maintenance area demonstrates that those projects in the statewide transportation plan and statewide TIP which are in the nonattainment or maintenance area would still conform if the project was implemented (consistent with the requirements of sections (18) and/or (19) for projects not from a conforming transportation plan and TIP).

(C) Notwithstanding subsections (A) and (B) of this section, in nonattainment and maintenance areas subject to subsections (9)(J) or (K) for a given pollutant/precursor and NAAQS, no recipient of federal funds designated under Title 23 U.S.C. or the Federal Transit Laws shall adopt or approve a regionally significant highway or transit project, regardless of funding source, unless the recipient finds that the requirements of one (1) of the following are met for that pollutant/precursor and NAAQS:

1. The project was included in the most recent conformity determination for the transportation plan and TIP and the project's design concept and scope has not changed significantly; or

2. The project was included in the most recent conformity determination that reflects the portion of the statewide transportation plan and statewide TIP which are in the nonattainment or maintenance area, and the project's design concept and scope has not changed significantly.

[(21)](22) Procedures for Determining Regional Transportation-Related Emissions.

(A) General Requirements.

1. The regional emissions analysis required by section [(17)](18) and section [(18)](19) of this rule for the transportation plan, TIP, or project not from a conforming plan and TIP must

include all regionally significant projects expected in the nonattainment or maintenance area. The analysis shall include FHWA/FTA projects proposed in the transportation plan and TIP and all other regionally significant projects which are disclosed to the MPO as required by section (5) of this rule. Projects which are not regionally significant are not required to be explicitly modeled, but vehicle miles traveled (VMT) from such projects must be estimated in accordance with reasonable professional practice. The effects of TCMs and similar projects that are not regionally significant may also be estimated in accordance with reasonable professional practice.

2. The emissions analysis may not include for emissions reduction credit any TCMs or other measures in the applicable implementation plan which have been delayed beyond the scheduled date(s) until such time as their implementation has been assured. If the measure has been partially implemented and it can be demonstrated that it is providing quantifiable emission reduction benefits, the emissions analysis may include that emissions reduction credit.

3. Emissions reduction credit from projects, programs, or activities which require a regulatory action in order to be implemented may not be included in the emissions analysis unless—

A. The regulatory action is already adopted by the enforcing jurisdiction;

B. The project, program, or activity is included in the applicable implementation plan;

C. The control strategy implementation plan submission or maintenance plan submission that establishes the motor vehicle emissions budget(s) for the purposes of section */(17)/(18)* contains a written commitment to the project, program, or activity by the agency with authority to implement it; or

D. EPA has approved an opt-in to a federally enforced program, EPA has promulgated the program (if the control program is a federal responsibility, such as tailpipe standards), or the Clean Air Act requires the program without need for individual state action and without any discretionary authority for EPA to set its stringency, delay its effective date, or not implement the program.

4. Notwithstanding paragraph */(21)/(22)(A)3. of this rule*, emission reduction credit from control measures that are not included in the transportation plan and TIP and that do not require a regulatory action in order to be implemented may not be included in the emissions analysis unless the conformity determination includes written commitments to implementation from appropriate entities.

A. Persons or entities voluntarily committing to control measures must comply with the obligations of such commitments.

B. Written commitments to mitigation measures must be obtained prior to a conformity determination, and project sponsors must comply with such commitments.

5. A regional emissions analysis for the purpose of satisfying the requirements of section */(18)/(19)* must make the same assumptions in both the “Baseline” and “Action” scenarios regarding control measures that are external to the transportation system itself, such as vehicle tailpipe or evaporative emission standards, limits on gasoline volatility, vehicle inspection and maintenance programs, and oxygenated or reformulated gasoline or diesel fuel.

6. The ambient temperatures used for the regional emissions analysis shall be consistent with those used to establish emissions budget in the applicable implementation plan. All other factors, for example the fraction of travel in a hot stabilized engine mode, must be consistent with the applicable implementation plan, unless modified after interagency consultation in accordance with subparagraph (5)(C)1.A. to incorporate additional or more geographically specific information or represent a logically estimated trend in such factors beyond the period considered in the applicable implementation plan.

7. Reasonable methods shall be used to estimate nonattainment or maintenance area vehicle miles traveled (VMT) on off-network roadways within the urban transportation planning area, and on roadways outside the urban transportation planning area.

(B) Regional emissions analysis in serious, severe, and extreme ozone nonattainment and serious carbon monoxide areas must meet

the requirements of paragraphs (B)1. through 3. of this section if their metropolitan planning area contains an urbanized area population over two hundred thousand (200,000).

1. Beginning January 1, 1997, estimates of regional transportation-related emissions used to support conformity determinations must be made at a minimum using network-based travel models according to procedures and methods that are available and in practice and supported by current and available documentation. These procedures, methods, and practices are available from DOT and will be updated periodically. Agencies must discuss these modeling procedures and practices through the interagency consultation process, as required by subparagraph (5)(C)1.A. Network-based travel models must at a minimum satisfy the following requirements:—

A. Network-based travel models must be validated against observed counts (peak and off-peak, if possible) for base year that is not more than ten (10) years prior to the date of the conformity determination. Model forecasts must be analyzed for reasonableness and compared to historical trends and other factors, and the results must be documented;

B. Land use, population, employment, and other network-based travel model assumptions must be documented and based on the best available information;

C. Scenarios of land development and use must be consistent with the future transportation system alternatives for which emissions are being estimated. The distribution of employment and residences for different transportation options must be reasonable;

D. A capacity-sensitive assignment methodology must be used, and emissions estimates must be based on a methodology which differentiates between peak and off-peak link volumes and speeds and uses of speeds based on final assigned volumes;

E. Zone-to-zone travel impedances used to distributive trips between origin and destination pairs must be in reasonable agreement with the travel times that are estimated from final assigned traffic volumes. Where use of transit currently is anticipated to be a significant factor in satisfying transportation demand, these times should also be used for modeling mode splits; and

F. Network-based travel models must be reasonably sensitive to changes in the time(s), cost(s), and other factors affecting travel choices.

2. Reasonable methods in accordance with good practice must be used to estimate traffic speeds and delays in a manner that is sensitive to the estimated volume of travel on each roadway segment represented in the network-based travel model.

3. Highway Performance Monitoring System (HPMS) estimates of vehicle miles traveled (VMT) shall be considered the primary measure of VMT within the portion of the nonattainment or maintenance area and for the functional classes of roadways included in HPMS, for urban areas which are sampled on a separate urban area basis. For areas with network-based travel models, a factor (or factors) may be developed to reconcile and calibrate the network-based travel model estimates of VMT in the base year of its validation to the HPMS estimates for the same period. These factors may then be applied to model estimates of future VMT. In this factoring process, consideration will be given to differences between HPMS and network-based travel models, such as differences in the facility coverage of the HPMS and the modeled network description. Locally developed count-based programs and other departures from these procedures are permitted subject to the interagency consultation procedures of subparagraph (5)(C)1.A.

(C) **Two (2)-year grace period for regional emissions analysis requirements in certain ozone and CO areas.** The requirements of subsection (B) of this section apply to such areas or portions of such areas that have not previously been required to meet these requirements for any existing NAAQS two (2) years from the following:

1. The effective date of EPA's reclassification of an ozone or CO nonattainment area that has an urbanized area population

greater than two hundred thousand (>200,000) to serious or above;

2. The official notice by the Census Bureau that determines the urbanized area population of a serious or above ozone or CO nonattainment area to be greater than two hundred thousand (>200,000); or

3. The effective date of EPA's action that classifies a newly designated ozone or CO nonattainment area that has an urbanized area population greater than two hundred thousand (>200,000) as serious or above.

[(C)](D) In all areas not otherwise subject to subsection (B) of this section, regional emissions analyses must use those procedures described in subsection (B) of this section if the use of those procedures has been the previous practice of the MPO. Otherwise, areas not subject to subsection (B) of this section may estimate regional emissions using any appropriate methods that account for VMT growth by, for example, extrapolating historical VMT or projecting future VMT by considering growth in population and historical growth trends for VMT per person. These methods must also consider future economic activity, transit alternatives, and transportation system policies.

[(D)](E) PM_{10} from Construction-Related Fugitive Dust.

1. For areas in which the implementation plan does not identify construction-related fugitive PM_{10} as a contributor to the nonattainment problem, the fugitive PM_{10} emissions associated with highway and transit project construction are not required to be considered in the regional emissions analysis.

2. In PM_{10} nonattainment and maintenance areas with implementation plans which identify construction-related fugitive PM_{10} as a contributor to the nonattainment problem, the regional PM_{10} emissions analysis shall consider construction-related fugitive PM_{10} and shall account for the level of construction activity, the fugitive PM_{10} control measures in the applicable implementation plan, and the dust-producing capacity of the proposed activities.

(F) $PM_{2.5}$ from Construction-Related Fugitive Dust.

1. For $PM_{2.5}$ areas in which the implementation plan does not identify construction-related fugitive $PM_{2.5}$ as a significant contributor to the nonattainment problem, the fugitive $PM_{2.5}$ emissions associated with highway and transit project construction are not required to be considered in the regional emissions analysis.

2. In $PM_{2.5}$ nonattainment and maintenance areas with implementation plans which identify construction-related fugitive $PM_{2.5}$ as a significant contributor to the nonattainment problem, the regional $PM_{2.5}$ emissions analysis shall consider construction-related fugitive $PM_{2.5}$ and shall account for the level of construction activity, the fugitive $PM_{2.5}$ control measures in the applicable implementation plan, and the dust-producing capacity of the proposed activities.

[(E)](G) Reliance on Previous Regional Emissions Analysis.

1. *[The]* Conformity determinations for a new transportation plan and/or TIP may be demonstrated to satisfy the requirements of section *[(17)](18)* Motor Vehicle Emissions Budget or section *[(18)](19)* Interim Emissions *[Reductions]* in Areas without Motor Vehicle Emissions Budgets of this rule without new regional analysis if the previous regional emissions analysis *[already performed for the plan]* also applies to the new plan and/or TIP. This requires a demonstration that—

A. The new plan and/or TIP contains all projects which must be started in the plan and TIP's time frames in order to achieve the highway and transit system envisioned by the transportation plan;

B. All plan and TIP projects which are regionally significant are included in the transportation plan with design concept and scope adequate to determine their contribution to the transportation plan's and/or TIP's regional emissions at the time of the *[transportation plan's]* previous conformity determination; *[and]*

C. The design concept and scope of each regionally significant project in the new plan and/or TIP is not significantly differ-

ent from that described in the previous transportation plan~~/.~~; and

D. The previous regional emissions analysis is consistent with the requirements of section (18) (including that conformity to all currently applicable budgets is demonstrated) and/or section (19), as applicable.

2. A project which is not from a conforming transportation plan and a conforming TIP may be demonstrated to satisfy the requirements of section *[(17)](18)* or section *[(18)](19)* of this rule without additional regional emissions analysis if allocating funds to the project will not delay the implementation of projects in the transportation plan or TIP which are necessary to achieve the highway and transit system envisioned by the transportation plan, the previous regional emissions analysis is still consistent with the requirements of section (18) (including that conformity to all currently applicable budgets is demonstrated) and/or section (19) as applicable, and if the project is either—

A. Not regionally significant; or

B. Included in the conforming transportation plan (even if it is not specifically included in the latest conforming TIP) with design concept and scope adequate to determine its contribution to the transportation plan's regional emissions at the time of the transportation plan's conformity determination, and the design concept and scope of the project is not significantly different from that described in the transportation plan.

3. A conformity determination that relies on subsection (G) of this section does not satisfy the frequency requirements of subsection (4)(B) or (C).

[(22)](23) Procedures for Determining Localized CO and PM_{10} Concentrations (Hot-Spot Analysis).

(A) CO Hot-Spot Analysis.

1. The demonstrations required by section (16) Localized CO Violations must be based on quantitative analysis using air quality models, databases, and other requirements specified in 40 CFR part 51, Appendix W Guideline on Air Quality Models. These procedures shall be used in the following cases, unless different procedures developed through the interagency consultation process required in section (5) and approved by the EPA regional administrator are used:

A. For projects in or affecting locations, areas, or categories of sites which are identified in the applicable implementation plan as sites of violation or possible violation;

B. For projects affecting intersections that are at Level-of-Service D, E, or F, or those that will change to Level-of-Service D, E, or F because of increased traffic volumes related to the project;

C. For any project affecting one or more of the top three (3) intersections in the nonattainment or maintenance area with highest traffic volumes, as identified in the applicable implementation plan; and

D. For any project affecting one or more of the top three (3) intersections in the nonattainment or maintenance area with the worst level-of-service, as identified in the applicable implementation plan.

2. In cases other than those described in paragraph (A)1. of this section, the demonstrations required by section (16) may be based on either—

A. Quantitative methods that represent reasonable and common professional practice; or

B. A quantitative consideration of local factors, if this can provide a clear demonstration that the requirements of section (16) are met.

(B) General Requirements.

1. Estimated pollutant concentrations must be based on the total emissions burden which may result from the implementation of the project, summed together with future background concentrations. The total concentrations must be estimated and analyzed at appropriate receptor locations in the area substantially affected by the project.

2. CO hot-spot analyses must include the entire project, and may be performed only after the major design features which will significantly impact CO concentrations have been identified. The future background concentration should be estimated by multiplying current background by the ratio of future to current traffic and the ratio of future to current emission factors.

3. Hot-spot analysis assumptions must be consistent with those in the regional emissions analysis for those inputs which are required for both analyses.

4. CO mitigation or control measures shall be assumed in the hot-spot analysis only where there are written commitments from the project sponsor and/or operator to implement such measures, as required by subsection *[(24)](25)(A)*.

5. CO hot-spot analyses are not required to consider construction-related activities which cause temporary increases in emissions. Each site which is affected by construction-related activities shall be considered separately, using established "Guideline" methods. Temporary increases are defined as those which occur only during the construction phase and last five (5) years or less at any individual site.

[(23)](24) Using the Motor Vehicle Emissions Budget in the Applicable Implementation Plan (or Implementation Plan Submission).

(A) In interpreting an applicable implementation plan (or implementation plan submission) with respect to its motor vehicle emissions budget(s), the MPO and DOT may not infer additions to the budget(s) that are not explicitly intended by the implementation plan (or submission). Unless the implementation plan explicitly quantifies the amount by which motor vehicle emissions could be higher while still allowing a demonstration of compliance with the milestone, attainment, or maintenance requirement and explicitly states an intent that some or all of this additional amount should be available to the MPO and DOT in the emission budget for conformity purposes, the MPO may not interpret the budget to be higher than the implementation plan's estimate of future emissions. This applies in particular to applicable implementation plans (or submissions) which demonstrate that after implementation of control measures in the implementation plan—

1. Emissions from all sources will be less than the total emissions that would be consistent with a required demonstration of an emissions reduction milestone;

2. Emissions from all sources will result in achieving attainment prior to the attainment deadline and/or ambient concentrations in the attainment deadline year will be lower than needed to demonstrate attainment; or

3. Emissions will be lower than needed to provide for continued maintenance.

[(B)] *If an applicable implementation plan submitted before November 24, 1993, demonstrates that emissions from all sources will be less than the total emissions that would be consistent with attainment and quantifies that "safety margin," the state may submit an implementation plan revision which assigns some or all of this safety margin to highway and transit motor vehicles for the purposes of conformity. Such an implementation plan revision, once it is endorsed by the governor and has been subject to a public hearing, may be used for the purposes of transportation conformity before it is approved by EPA.]*

[(C)](B) A conformity demonstration shall not trade emissions among budgets which the applicable implementation plan (or implementation plan submission) allocates for different pollutants or precursors, or among budgets allocated to motor vehicles and other sources, unless the implementation plan establishes appropriate mechanisms for such trades.

[(D)](C) If the applicable implementation plan (or implementation plan submission) estimates future emissions by geographic subarea of the nonattainment area, the MPO and DOT are not required to consider this to establish subarea budgets, unless the applicable implementation plan (or implementation plan submission) explicitly indicates an intent to create such subarea budgets for the purposes of conformity.

[(E)](D) If a nonattainment area includes more than one MPO, the implementation plan may establish motor vehicle emissions budgets for each MPO, or else the MPOs must collectively make a conformity determination for the entire nonattainment area.

[(24)](25) Enforceability of Design Concept and Scope and Project-Level Mitigation and Control Measures.

(A) Prior to determining that a transportation project is in conformity, the MPO, other recipient of funds designated under Title 23 U.S.C. or the Federal Transit Laws, FHWA, or FTA must obtain from the project sponsor and/or operator written commitments to implement in the construction of the project and operation of the resulting facility or service any project-level mitigation or control measures which are identified as conditions for NEPA process completion with respect to local CO impacts. Before a conformity determination is made, written commitments must also be obtained for project-level mitigation or control measures which are conditions for making conformity determinations for a transportation plan or TIP and are included in the project design concept and scope which is used in the regional emissions analysis required by sections *[(17)](18)* Motor Vehicle Emissions Budget and *[(18)](19)* Interim Emissions [Reductions] in Areas Without Motor Vehicle Emissions Budgets or used in the project-level hot-spot analysis required by section (16).

(B) Project sponsors voluntarily committing to mitigation measures to facilitate positive conformity determinations must comply with the obligations of such commitments.

(C) Written commitments to mitigation measures must be obtained prior to a conformity determination, and project sponsors must comply with such commitments.

(D) If the MPO or project sponsor believes the mitigation or control measure is no longer necessary for conformity, the project sponsor or operator may be relieved of its obligation to implement the mitigation or control measure if it can demonstrate that the applicable hot-spot requirements of section (16), emission budget requirements of section *[(17)](18)* and interim emissions [reduction] requirements of section *[(18)](19)* are satisfied without the mitigation or control measure, and so notifies the agencies involved in the interagency consultation process required under section (5). The MPO and DOT must find that the transportation plan and TIP still satisfy applicable requirements of sections *[(17)](18)* and/or *[(18)](19)* and that the project still satisfies the requirements of section (16) and therefore that the conformity determinations for the transportation plan, TIP, and project are still valid. This finding is subject to the applicable public consultation requirements in subsection (5)(F) for conformity determination for projects.

[(25)](26) Exempt Projects. Notwithstanding the other requirements of this rule, highway and transit projects of the types listed in Table 2 of this section are exempt from the requirement to determine conformity. Such projects may proceed toward implementation even in the absence of a conforming transportation plan and TIP. A particular action of the type listed in Table 2 of this section is not exempt if the MPO in consultation with other agencies (see subparagraph (5)(C)1.C.), the EPA, and the FHWA (in the case of a highway project) or the FTA (in the case of a transit project) concur that it has potentially adverse emissions impacts for any reason. The state and the MPO must ensure that exempt projects do not interfere with TCM implementation. Table 2 follows:

Table 2—Exempt Projects

Safety

Railroad/highway crossing
Hazard elimination program
Safer nonfederal-aid system roads
Shoulder improvements
Increasing sight distance
Safety improvement program
Traffic control devices and operating assistance other than signalization projects
Railroad/highway crossing warning devices
Guardrails, median barriers, crash cushions
Pavement resurfacing or rehabilitation
Pavement marking demonstration
Emergency relief (23 U.S.C. 125)
Fencing
Skid treatments
Safety roadside rest areas
Adding medians
Truck climbing lanes outside the urbanized area
Lighting improvements
Widening narrow pavements or reconstructing bridges (no additional travel lanes)
Emergency truck pullovers

Mass Transit

Operating assistance to transit agencies
Purchase of support vehicles
Rehabilitation of transit vehicles¹
Purchase of office, shop, and operating equipment for existing facilities
Purchase of operating equipment for vehicles (e.g., radios, fare boxes, lifts, etc.)
Construction or renovation of power, signal, and communications systems
Construction of small passenger shelters and information kiosks
Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)
Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way
Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet¹
Construction of new bus or rail storage/maintenance facilities categorically excluded in 23 CFR part 771

Air Quality

Continuation of ride-sharing and van-pooling promotion activities at current levels
Bicycle and pedestrian facilities

Other

Specific activities which do not involve or lead directly to construction, such as—
Planning and technical studies
Grants for training and research programs
Planning activities conducted pursuant to Titles 23 and 49 U.S.C.
Federal-aid systems revisions
Engineering to assess social, economic, and environmental effects of the proposed action or alternatives to that action
Noise attenuation
Emergency or hardship advance land acquisitions [(23 CFR part 712.204(d))](23 CFR 710.503)
Acquisition of scenic easements
Plantings, landscaping, etc.
Sign removal
Directional and informational signs

Transportation enhancement activities (except rehabilitation and operation of historic transportation buildings, structures, or facilities)

Repair of damage caused by natural disasters, civil unrest, or terrorist acts, except projects involving substantial functional, locational, or capacity changes

¹Note—In PM₁₀ nonattainment or maintenance areas, such projects are exempt only if they are in compliance with control measures in the applicable implementation plan.

[(26)](27) Projects Exempt From Regional Emissions Analyses. Notwithstanding the other requirements of this rule, highway and transit projects of the types listed in Table 3 of this section are exempt from regional emissions analysis requirements. The local effects of these projects with respect to CO concentrations must be considered to determine if a hot-spot analysis is required prior to making a project-level conformity determination. These projects may then proceed to the project development process even in the absence of a conforming transportation plan and TIP. A particular action of the type listed in Table 3 of this section is not exempt from regional emissions analysis if the MPO in consultation with other agencies (see subparagraph (5)(C)1.C.), the EPA, and the FHWA (in the case of a highway project) or the FTA (in the case of a transit project) concur that it has potential regional impacts for any reason. Table 3 follows:

Table 3—Projects Exempt from Regional Emissions Analyses

Intersection channelization projects
Intersection signalization projects at individual intersections
Interchange reconfiguration projects
Changes in vertical and horizontal alignment
Truck size and weight inspection stations
Bus terminals and transfer points

[(27)](28) Traffic Signal Synchronization Projects. Traffic signal synchronization projects may be approved, funded, and implemented without satisfying the requirements of this section. However, all subsequent regional emissions analyses required by sections [(17)](18) and [(18)](19) for transportation plans, TIPs, or projects not from a conforming plan and TIP must include such regionally significant traffic signal synchronization projects.

AUTHORITY: section 643.050, RSMo 2000. Original rule filed Oct. 4, 1994, effective May 28, 1995. Amended: Filed May 1, 1996, effective Dec. 30, 1996. Amended: Filed June 15, 1998, effective Jan. 30, 1999. Amended: Filed Feb. 14, 2003, effective Sept. 30, 2003. Amended: Filed April 1, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: A public hearing on this proposed amendment will begin at 9:00 a.m., June 30, 2005. The public hearing will be held at the Governor Office Building, Room 450, 200 Madison Street, Jefferson City, Missouri. Opportunity to be heard at the hearing shall be afforded any interested person. Written request to be heard should be submitted at least seven (7) days prior to the hearing to Director, Missouri Department of Natural Resources' Air Pollution Control Program, 205 Jefferson Street, PO Box 176, Jefferson City, MO 65102-0176, (573) 751-4817. Interested persons, whether or not heard, may submit a written statement of their views until 5:00 p.m., July 7, 2005. Written comments shall be sent to Chief, Operations Section, Missouri Department of Natural Resources' Air Pollution

Control Program, 205 Jefferson Street, PO Box 176, Jefferson City, MO 65102-0176.

Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 20—Clean Water Commission
Chapter 7—Water Quality

PROPOSED AMENDMENT

10 CSR 20-7.015 Effluent Regulations. The Department of Natural Resources is amending (1)(A)3. to update the name change of Geological Survey and Resource Assessment Division, (2)(B)4. to add language referencing the implementation schedule for facilities without disinfected effluent and referencing the temporary suspension of accountability for bacteria standards, (3)(B)3. to add language referencing the implementation schedule for facilities without disinfected effluent and referencing the temporary suspension of accountability for bacteria standards, (3)(F)1. to clarify the effective date of phosphorus rule for Lake Taneycomo, (3)(G)2. to clarify the effective date of phosphorus rule for Table Rock Lake, (3)(G)3. to clarify the effective date of phosphorus rule for Table Rock Lake, (3)(G)4. to clarify the effective date of phosphorus rule for Table Rock Lake, (4)(B)5. to revise confusing dechlorination language, (6) to make this rule more consistent with the Water Quality Standards, (7)(C) to update the name change of Geological Survey and Resource Assessment Division, (8)(B)4. to add language referencing the implementation schedule for facilities without disinfected effluent and referencing the temporary suspension of accountability for bacteria standards, (9)(H) to add language explaining the implementation schedule for facilities without disinfected effluent affected by whole body contact recreation designation in 10 CSR 20-7.031, Water Quality Standards, and (9)(I) to add language for the temporary suspension of accountability for bacteria standards during wet weather. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Water Protection Program at the address and phone number listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Environmental Regulatory Agenda website, www.dnr.mo.gov/regs/regagenda.htm or Water Protection Program Rule Development website, <http://www.dnr.mo.gov/wpscd/wpcp/rules/wpp-rule-dev.htm>.

PURPOSE: This amendment implements changes resulting from the revisions of Missouri's Water Quality Standards (WQS).

In 2001, the Missouri Department of Natural Resources (MDNR or department) Division of Geology and Land Survey officially changed its title to the Geological Survey and Resource Assessment Division. Therefore, it is necessary to modify language in the Effluent Regulations to reflect the change.

Section 101(a)(2) of the CWA establishes as a national goal "water quality which provides for the protection and propagation of fish, shellfish, and wildlife and . . . recreation in and on the water," wherever attainable. This national goal is commonly referred to as the "fishable/swimmable" goal. Missouri currently lists all classified waters for aquatic life, but selectively lists water bodies for whole body contact recreation. Therefore all waters listed in 10 CSR 20-7.031 Tables G and H will be designated for whole body contact recreation upon the effective date of the Water Quality Standards at 10 CSR 20-7.031. An implementation schedule will be included within which affected permitted facilities must comply with the revised WQS.

Under the Lakes and Reservoirs section, the adoption dates of the phosphorus rules for Lake Taneycomo (10 CSR 20-7.015(3)(F)) and Table Rock Lake (10 CSR 20-7.015(3)(G)) were not specifically men-

tioned. Therefore the dates will be added to ensure correct interpretation of these regulations.

Language describing dechlorination of discharges to losing stream in paragraph (4)(B)5. is confusing as written. A special workgroup was formed to address this issue, called the Total Residual Chlorine Workgroup. Water Pollution Control Branch staff and the workgroup agreed that the intent of the regulation was to require dechlorination for all discharges to losing streams. Therefore, the language was revised to clarify the issue.

It has been stated that a couple of Missouri's WQS are inconsistent and/or conflict with the Antidegradation Policy. Maintaining consistency with Tier III in 10 CSR 20-7.031(2)(C), all dischargers into Outstanding National Resource Waters (ONRWs) and Outstanding State Resource Waters (OSRWs) or into their watershed must be subject to special effluent limitations as required in 10 CSR 20-7.015(6).

Missouri currently allows exceedance of bacteria limits during periods of storm water runoff (high flow exemption). As currently stated in 10 CSR 20-7.031, Water Quality Standards, the high flow exemption might not ensure that whole body contact recreation is adequately protected. Also of concern, the high flow exemption is broad and qualitative. Therefore, the high flow exemption will be revised and moved to 10 CSR 20-7.015 Effluent Regulations.

When discovered, typographical errors found in the rule were corrected.

(1) Designations of Waters of the State.

(A) For the purpose of this rule, the waters of the state are divided into the following categories:

1. The Missouri and Mississippi Rivers;

2. Lakes and reservoirs, including natural lakes and any impoundments created by the construction of a dam across any waterway or watershed. An impoundment designed for or used as a disposal site for tailings or sediment from a mine or mill shall be considered a wastewater treatment device and not a lake or reservoir. Releases to lakes and reservoirs include discharges into streams one-half (1/2) stream mile (.80 km) before the stream enters the lake as measured to its normal full pool;

3. A losing stream is a stream which distributes thirty percent (30%) or more of its flow through natural processes such as through permeable geologic materials into a bedrock aquifer within two (2) miles' flow distance downstream of an existing or proposed discharge. Flow measurements to determine percentage of water loss must be corrected to approximate the seven (7)-day Q_{10} stream flow.

If a stream bed or drainage way has an intermittent flow or a flow insufficient to measure in accordance with this rule, it may be determined to be a losing stream on the basis of channel development, valley configuration, vegetation development, dye tracing studies, bedrock characteristics, geographical data and other geological factors. Only discharges which in the opinion of the department reach the losing section and which occur within two (2) miles upstream of the losing section of the stream shall be considered releases to a losing stream. A list of known losing streams is available [from the *Water Pollution Control Program*] in the *Water Quality Standards, 10 CSR 20-7.031 Table J—Losing Streams*. Other streams may be determined to be losing by the [Division of Geology and Land Survey] Geological Survey and Resource Assessment Division;

4. Metropolitan no-discharge streams. These streams and the limitations on discharging to them are listed in the commission's Water Quality Standards 10 CSR 20-7.031. This rule shall in no way change, amend or be construed to allow a violation of the existing or future water quality standards;

5. Special streams—wild and scenic rivers, Ozark National Scenic Riverways and Outstanding State Resource Waters;

6. Subsurface waters in aquifers; and

7. All other waters except as noted in paragraphs (1)(A)1.-6. of this rule.

(2) Effluent Limitations for the Missouri and Mississippi Rivers.

(B) Discharges from wastewater treatment facilities which receive primarily domestic waste or from publicly-owned treatment works (POTWs) shall undergo treatment sufficient to conform to the following limitations:

1. Biochemical Oxygen Demand₅ (BOD₅) and nonfilterable residues (NFRs) equal to or less than a monthly average of thirty milligrams per liter (30 mg/l) and a weekly average of forty-five milligrams per liter (45 mg/l);

2. pH shall be maintained in the range from six to nine (6-9) standard units;

3. Exceptions to paragraphs (2)(B)1. and 2. are as follows:

A. If the facility is a wastewater lagoon, the NFRs shall be equal to or less than a monthly average of eighty (80) mg/l and a weekly average of one hundred twenty (120) mg/l and the pH shall be maintained above 6.0, and the BOD₅ shall be equal to or less than a monthly average of forty-five (45) mg/l and a weekly average of sixty-five (65) mg/l;

B. If the facility is a trickling filter plant the BOD₅ and NFRs shall be equal to or less than a monthly average of forty-five (45) mg/l and a weekly average of sixty-five (65) mg/l;

C. Where the use of effluent limitations set forward in this section is known or expected to produce an effluent that will endanger or violate water quality, the department will set specific effluent limitations for individual dischargers to protect the water quality of the receiving streams. When a waste load allocation or a total maximum daily load study is conducted for a stream or stream segment, all permits for discharges in the study area shall be modified to reflect the limits established in the study;

D. The department may require more stringent limitations than authorized in subsections (3)(A) and (B) under the following conditions:

(I) If the facility is an existing facility, the department may set the BOD₅ and NFR limits based upon an analysis of the past performance, rounded up to the next five (5) mg/l range; and

(II) If the facility is a new facility, the department may set the BOD₅ and NFR limits based upon the design capabilities of the plant considering geographical and climatic conditions;

(a) A design capability study has been conducted for new lagoon systems. The study reflects that the effluent limitations should be BOD₅ equal to or less than a monthly average of forty-five (45) mg/l, a weekly average of sixty-five (65) mg/l, NFRs equal to or less than a monthly average of seventy (70) mg/l and a weekly average of one hundred ten (110) mg/l.

(b) A design capability study has been conducted for new trickling filter systems and the study reflects that the effluent limitations should be BOD₅ and NFRs equal to or less than a monthly average of forty (40) mg/l and a weekly average of sixty (60) mg/l; and

E. If the facility is a POTW wastewater treatment facility providing at least primary treatment during a precipitation event and discharges on a noncontinuous basis, the discharge may be allowed provided that:

(I) BOD₅ and NFRs equal to or less than a weekly average of forty-five (45) mg/l. The NFR (total suspended solids) limit may be higher than forty-five (45) mg/l for combined sewer overflow treatment devices when organic solids are demonstrated to be an insignificant fraction of total inorganic storm water generated solids, and the permittee can demonstrate that achieving a limit of forty-five (45) mg/l is not cost effective relative to water quality benefits. In

these cases, an alternative total suspended solids limit would be developed.

(II) pH shall be maintained in the range from six to nine (6-9) standard units; and

(III) Only the wastewater in excess of the capacity of the noncontinuous wastewater treatment plant hydraulic capacity may be discharged;

4. Fecal coliform. Discharges *[to the Mississippi from the Missouri-Iowa line down to Lock and Dam 26]* into segments identified as whole body contact areas shall not contain more than a monthly average of four hundred (400) fecal coliform colonies per one hundred milliliters (100 ml) and a daily maximum of one thousand (1,000) fecal coliform colonies per one hundred milliliters (100 ml) from April 1 to October 31. The department may waive or relax this limitation if the owner or operator of the wastewater treatment facility can demonstrate that neither health nor water quality will be endangered by failure to disinfect. **Facilities without disinfected effluent shall comply with the implementation schedule found in subsection (9)(H) of this rule. During periods of wet weather, a temporary suspension of accountability for bacteria standards may be established through the process described in subsection (9)(I) of this rule.**

5. Sludges removed in the treatment process shall not be discharged. Sludges shall be routinely removed from the wastewater treatment facility and disposed or used in accordance with a sludge management practice approved by the department; and

6. When the wastewater treatment process causes nitrification which affects the BOD₅ reading, the permittee can petition the department to substitute carbonaceous BOD₅ in lieu of regular BOD₅ testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD₅ at five (5) mg/l less than the regular BOD₅ in the operating permit.

(3) Effluent Limitations for the Lakes and Reservoirs.

(B) Discharges from wastewater treatment facilities which receive primarily domestic waste or from POTWs shall undergo treatment sufficient to conform to the following limitations:

1. BOD₅ and NFRs equal to or less than a monthly average of twenty (20) mg/l and a weekly average of thirty (30) mg/l;

2. pH shall be maintained in the range from six to nine (6-9) standard units;

3. Discharge to lakes and reservoirs identified as whole body contact areas shall not contain more than a monthly average of four hundred (400) fecal coliform colonies per one hundred milliliters (100 ml) and a daily maximum of one thousand (1,000) fecal coliform colonies per one hundred milliliters (100 ml) from April 1 to October 31. The department may waive or relax this limitation if the permittee can demonstrate that neither health nor water quality will be endangered by failure to disinfect. **Facilities without disinfected effluent shall comply with the implementation schedule found in subsection (9)(H) of this rule. During periods of wet weather, a temporary suspension of accountability for bacteria standards may be established through the process described in subsection (9)(I) of this rule;**

4. Where the use of effluent limitations set forth in section (3) is known or expected to produce an effluent that will endanger or violate water quality, the department may either—conduct waste load allocation studies in order to arrive at a limitation which protects the water quality of the state or set specific effluent limitations for individual dischargers to protect the water quality of the receiving streams. When a waste load allocation study is conducted for a stream or stream segment, all permits for discharges in the study area shall be modified to reflect the limits established in the waste load allocation study;

5. If the facility is a POTW wastewater treatment facility providing at least primary treatment during a precipitation event and discharges on a noncontinuous basis, the discharge may be allowed subject to the following:

A. BOD₅ and NFRs equal to or less than a weekly average of forty-five (45) mg/l;

B. pH shall be maintained in the range from six to nine (6–9) standard units; and

C. Only the wastewater in excess of the capacity of the non-continuous wastewater treatment plant hydraulic capacity may be discharged;

6. Sludges removed in the treatment process shall not be discharged. Sludges shall be routinely removed from the wastewater treatment facility and disposed of or used in accordance with a sludge management practice approved by the department; and

7. When the wastewater treatment process causes nitrification which effects the BOD₅ reading, the permittee can petition the department to substitute carbonaceous BOD₅ in lieu of regular BOD₅ testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD₅ at five (5) mg/l less than the regular BOD₅ in the operating permit.

(F) In addition to other requirements in this section, discharges to Lake Taneycomo and its tributaries between Table Rock Dam and Power Site Dam (and excluding the discharges from the dams) shall not exceed five-tenths (0.5) mg/l of phosphorus as a monthly average. Discharges meeting both the following conditions shall be exempt from this requirement:

1. Those permitted prior to *[adoption of this rule]* **May 9, 1994**; and

2. Those with design flows of less than twenty-two thousand five hundred gallons per day (22,500 gpd). All existing facilities whose capacity is increased would be subject to phosphorus limitations. The department may allow the construction and operation of interim facilities without phosphorus control provided their discharges are connected to regional treatment facilities with phosphorus control not later than three (3) years after authorization. Discharges in the White River basin and outside of the area designated above for phosphorus limitations shall be monitored for phosphorus discharges, and the frequency of monitoring shall be the same as that for BOD₅ and NFR, but not less than annually. The department may reduce the frequency of monitoring if the monitoring data is sufficient for water quality planning purposes.

(G) In addition to other requirements in this section, discharges to Table Rock Lake watershed, defined as hydrologic units numbered 11010001 and 11010002, shall not exceed five-tenths milligrams per liter (0.5 mg/l) of phosphorus as a monthly average according to the following schedules except as noted in paragraph (3)(G)5.:

1. Any new discharge shall comply with this new requirement upon the start of operations;

2. Any existing discharge, or any sum of discharges operated by a single continuing authority, with a design flow of 1.0 mgd or greater shall comply no later than *[four (4) years after the effective date of this rule]* **November 30, 2003**;

3. Any existing discharge, or any sum of discharges operated by a single continuing authority, with a design flow of 0.1 mgd or greater, but less than 1.0 mgd, shall comply no later than *[eight (8) years after the effective date of this rule]* **November 30, 2007**, and shall not exceed one milligram per liter (1.0 mg/l) as a monthly average as soon as possible and no later than *[four (4) years after the effective date of this rule]* **November 30, 2003**;

4. Any existing discharge with a design flow of twenty-two thousand five hundred gallons per day (22,500 gpd) or greater, but less than 0.1 mgd, shall comply no later than *[eight (8) years after the effective date of this rule]* **November 30, 2007**;

5. Any existing discharge with a design flow of less than twenty-two thousand five hundred gallons per day (22,500 gpd) permitted prior to *[the effective date of this rule]* **November 30, 1999** shall be exempt from this requirement unless the design flow is increased; and

6. Any existing discharge in which the design flow is increased shall comply according to the schedule applicable to the final design flow.

(4) Effluent Limitations for Losing Streams.

(B) If the department agrees to allow a release to a losing stream, the permit will be written using the limitations contained in subsections (4)(B) and (C). Discharges from wastewater treatment facilities which receive primarily domestic waste or from POTWs permitted under this section shall undergo treatment sufficient to conform to the following limitations:

1. BOD₅ equal to or less than a monthly average of ten (10) mg/l and a weekly average of fifteen (15) mg/l;

2. NFRs equal to or less than a monthly average of fifteen (15) mg/l and a weekly average of twenty (20) mg/l;

3. pH shall be maintained in the range from six to nine (6–9) standard units;

4. Discharges to losing streams shall not contain more than a monthly average of four hundred (400) fecal coliform colonies per one hundred milliliters (100 ml) and a daily maximum of one thousand (1,000) fecal coliform colonies per one hundred milliliters (100 ml);

5. *[Where chlorine is used as a disinfectant, the effluent shall be dechlorinated except when the discharge is—*

A. *Into an unclassified stream at least one (1) mile from a water quality standard classified stream; and*

B. *Into a flowing stream where the seven (7)-day Q₁₀ flow is equal to or greater than fifty (50) times the effluent flow;]* All chlorinated effluent discharges to losing streams or within two (2) stream miles flow distance upstream of a losing stream shall also be dechlorinated prior to discharge.

6. If the facility is a POTW wastewater treatment facility providing at least primary treatment during a precipitation event and discharges on a noncontinuous basis, the discharge may be allowed subject to the following:

A. BOD₅ and NFRs equal to or less than a weekly average of forty-five (45) mg/l;

B. pH shall be maintained in the range from six to nine (6–9) standard units; and

C. Only the wastewater in excess of the capacity of the non-continuous wastewater treatment plant hydraulic capacity may be discharged;

7. Sludges removed in the treatment process shall not be discharged. Sludges shall be routinely removed from the wastewater treatment facility and disposed of or used in accordance with a sludge management practice approved by the department; and

8. When the wastewater treatment process causes nitrification which effects the BOD₅ reading, the permittee can petition the department to substitute carbonaceous BOD₅ in lieu of regular BOD₅ testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD₅ at five (5) mg/l less than the regular BOD₅ in the operating permit.

(6) *[Effluent Limitations for Special Streams.] Discharge Restrictions for Outstanding National or State Resource Waters and Drainages Thereto.*

[[A] Limits for Wild and Scenic Rivers and Ozark National Scenic Riverways and Drainages Thereto.

1. The following limitations represent the maximum amount of pollutants which may be discharged from any point source, water contaminant source or wastewater treatment facility to waters included in this section.

2. Discharges from wastewater treatment facilities, which receive primarily domestic waste or from POTWs are limited as follows:

A. New releases from any source other than POTW facilities are prohibited;

B. Discharges from sources that existed before June 29, 1974, or if additional stream segments are placed in this section, discharges that were permitted at the time of the designation will be allowed;

C. Discharges from POTWs; and

D. Releases from the permitted facilities under subparagraphs (6)(A)2.A.-C. shall meet the following effluent limitation:

(I) BOD_5 equal to or less than a monthly average of ten (10) mg/l and a weekly average of fifteen (15) mg/l;

(II) NFRs equal to or less than a monthly average of fifteen (15) mg/l and a weekly average of twenty (20) mg/l;

(III) pH shall be maintained in the range from six to nine (6-9) standard units;

(IV) Discharges shall not contain more than a monthly average of four hundred (400) fecal coliform colonies per one hundred milliliters (100 ml) and a daily maximum of one thousand (1,000) fecal coliform colonies per one hundred milliliters (100 ml);

(V) Where chlorine is used as a disinfectant, the effluent shall be dechlorinated except when the discharge is—

(a) Into an unclassified stream at least one (1) mile from a water quality standard classified stream; or

(b) Into a flowing stream where the seven (7)-day Q_{10} flow is equal to or greater than fifty (50) times the effluent flow;

(VI) If the facility is a POTW wastewater treatment facility providing at least primary treatment during a precipitation event and discharges on a noncontinuous basis, the discharge may be allowed subject to the following:

(a) BOD_5 and NFRs equal to or less than a weekly average of forty-five (45) mg/l;

(b) pH shall be maintained in the range from six to nine (6-9) standard units; and

(c) Only the wastewater in excess of the capacity of the noncontinuous wastewater treatment plant hydraulic capacity may be discharged; and

(VII) When the wastewater treatment process causes nitrification which affects the BOD_5 reading, the permittee can petition the department to substitute carbonaceous BOD_5 in lieu of regular BOD_5 testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD_5 at five (5) mg/l less than the regular BOD_5 in the operating permit.

3. Industrial, agricultural and other non-domestic contaminant sources, point sources or wastewater treatment facilities which are not included under subparagraph (6)(A)2.B. shall not be allowed to discharge. Agrichemical facilities shall be designed and constructed so that all bulk liquid pesticide nonmobile storage containers and all bulk liquid fertilizer nonmobile storage containers are located within a secondary containment facility. Dry bulk pesticides and dry bulk fertilizers shall be stored in a building so that they are protected from the weather. The floors of the buildings shall be con-

structed of an approved design and material(s). At an agrichemical facility, all transferring, loading, unloading, mixing and repackaging of bulk agrichemicals shall be conducted in an operational area. All precipitation collected in the operational containment area or secondary containment area as well as process generated wastewater shall be stored and disposed of in a no-discharge manner.

4. Monitoring requirements.

A. The department will develop a wastewater and sludge sampling program based on design flow that will require, at a minimum, one (1) wastewater sample per year for each twenty-five thousand (25,000) gpd of effluent, or fraction thereof, except that—

(I) Point sources that discharge less than five thousand (5,000) gpd may only be required to submit an annual report;

(II) Point sources that discharge more than one point three (1.3) mgd will be required at a minimum to collect fifty-two (52) wastewater samples per year; and

(III) Sludge sampling will be established in the permit.

B. Sampling frequency shall be spread evenly throughout the discharge year. This means that a point source with a continuous discharge shall take samples on a regular schedule, while point sources with seasonal discharges shall collect samples during the season of discharge.

C. Sample types shall be as follows:

(I) Samples collected from lagoons may be grab samples;

(II) Samples collected from mechanical plants shall be twenty-four (24)-hour composite samples, unless otherwise specified in the operating permit; and

(III) Sludge samples shall be a grab sample unless otherwise specified in the operating permit.

D. The monitoring frequency and sample types stated in paragraph (6)(D)3. are minimum requirements. The permit writer shall establish monitoring frequencies and sampling types to fulfill the site specific informational needs of the department.

(B) Limits for Outstanding State Resource Waters as per Water Quality Standards.

1. Discharges shall not cause the current water quality in the streams to be lowered.

2. Discharges will be permitted as long as the requirements of paragraph (6)(B)1. are met and the limitations in section (8) are not exceeded.]

(A) Discharge Restrictions for Outstanding National or State Resource Waters.

1. Except as specified below, no new or expanded discharges shall be allowed directly into these waters.

2. Discharge from sources that existed before June 29, 1974, are allowed.

3. When additional waters are designated in 10 CSR 20-7.031—Tables D and E, discharges that are permitted at the time of the designation are allowed.

4. Temporary lowering of water quality, but not below water quality standards, may be allowed from storm water discharges during a construction project with prior approval by the department.

(B) Discharge Restrictions in the Watershed of Outstanding National or State Resource Waters.

1. All discharges into the tributaries of designated waters must ensure that no lowering of water quality occurs at or below the point the tributary enters the designated water.

2. Discharges within the watershed of designated waters shall not result in the lowering of water quality in the designated

water through hydrologic connections, such as through groundwater.

3. Watershed, as used in this section, shall be any drainage area, on the surface or underground, that drains or flows to a designated water.

(7) Effluent Limitations for Subsurface Waters.

(C) All abandoned wells and test holes shall be properly plugged or sealed to prevent pollution of subsurface waters, as per the requirements of the *Division of Geology and Land Survey/ Geological Survey and Resource Assessment Division*.

(8) Effluent Limitations for All Waters, Except Those in Paragraphs (1)(A)1.-6.

(B) Discharges from wastewater treatment facilities which receive primarily domestic waste or POTWs shall undergo treatment sufficient to conform to the following limitations:

1. BOD₅ and NFRs equal to or less than a monthly average of thirty (30) mg/l and a weekly average of forty-five (45) mg/l;

2. pH shall be maintained in the range from six to nine (6-9) standard units;

3. The limitations of paragraphs (8)(B)1. and 2. will be effective unless a water quality impact study has been conducted by the department, or conducted by the permittee and approved by the department, showing that alternate limitation will not cause violations of the Water Quality Standards or impairment of the uses in the standards. When a water quality impact study has been completed to the satisfaction of the department, the following alternate limitation may be allowed:

A. If the facility is a wastewater lagoon, the NFRs shall be equal to or less than a monthly average of eighty (80) mg/l and a weekly average of one hundred twenty (120) mg/l and the pH shall be maintained above 6.0 and the BOD₅ shall be equal to or less than a monthly average of forty-five (45) mg/l and a weekly average of sixty-five (65) mg/l;

B. If the facility is a trickling filter plant, the BOD₅ and NFRs shall be equal to or less than a monthly average of forty-five (45) mg/l and a weekly average of sixty-five (65) mg/l;

C. Where the use of effluent limitations set forth in section (8) is known or expected to produce an effluent that will endanger water quality, the department will set specific effluent limitations for individual dischargers to protect the water quality of the receiving streams. When a waste load allocation study is conducted for a stream or stream segment, all permits for discharges in the study area shall be modified to reflect the limits established in the waste load allocation study;

D. The department may require more stringent limitations than authorized in subsections (3)(A) and (B) under the following conditions:

(I) If the facility is an existing facility, the department may set the BOD₅ and NFR limits based upon an analysis of the past performance, rounded up to the next five (5) mg/l range; and

(II) If the facility is a new facility, the department may set the BOD₅ and NFR limits based upon the design capabilities of the plant considering geographical and climatic conditions;

(a) A design capability study has been conducted for new lagoon systems. The study reflects that the effluent limitations should be BOD₅ equal to or less than a monthly average of forty-five (45) mg/l, a weekly average of sixty-five (65) mg/l, NFRs equal to or less than a monthly average of seventy (70) mg/l and a weekly average of one hundred ten (110) mg/l;

(b) A design capability study has been conducted for new trickling filter systems and the study reflects that the effluent limitations should be BOD₅ and NFR equal to or less than a month-

ly average of forty (40) mg/l and a weekly average of sixty (60) mg/l; and

E. If the facility is a POTW wastewater treatment facility providing at least primary treatment during a precipitation event and discharges on a noncontinuous basis, the discharge may be allowed provided that:

(I) BOD₅ and NFRs equal to or less than a weekly average of forty-five (45) mg/l. The NFR (total suspended solids) limit may be higher than forty-five (45) mg/l for combined sewer overflow treatment devices when organic solids are demonstrated to be an insignificant fraction of total inorganic storm water generated solids, and the permittee can demonstrate that achieving a limit of forty-five (45) mg/l is not cost effective relative to water quality benefits. In these cases, an alternative total suspended solids limit would be developed.

(II) pH shall be maintained in the range from six to nine (6-9) units; and

(III) Only the wastewater in excess of the capacity of the noncontinuous wastewater treatment plant hydraulic capacity may be discharged;

4. Fecal coliform.

A. Discharges to streams identified as whole body contact areas, discharges within two (2) miles upstream of these areas and discharges to streams with a seven (7)-day Q₁₀ flow of zero (0) in metropolitan areas where the stream is readily accessible to the public shall not contain more than a monthly average of four hundred (400) fecal coliform colonies per one hundred milliliters (100 ml) and a daily maximum of one thousand (1,000) fecal coliform colonies per one hundred milliliters (100 ml) from April 1 to October 31. The department may waive or relax this limitation if the owner or operator of the wastewater treatment facility can demonstrate that neither health nor water quality will be endangered by failure to disinfect. **Facilities without disinfected effluent shall comply with the implementation schedule found in subsection (9)(H) of this rule. During periods of wet weather, a temporary suspension of accountability for bacteria standards may be established through the process described in subsection (9)(I) of this rule.**

B. Where chlorine is used as a disinfectant, the effluent shall be dechlorinated except when the discharge is—

(I) Into an unclassified stream at least one (1) mile from a Water Quality Standards classified stream; or

(II) Into a flowing stream where the seven (7)-day Q₁₀ flow is equal to or greater than fifty (50) times the design effluent flow;

5. Sludges removed in the treatment process shall not be discharged. Sludges shall be routinely removed from the wastewater treatment facility and disposed of or used in accordance with a sludge management practice approved by the department; and

6. When the wastewater treatment process causes nitrification which affects the BOD₅ reading, the permittee can petition the department to substitute carbonaceous BOD₅ in lieu of regular BOD₅ testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD₅ at five (5) mg/l less than the regular BOD₅ in the operating permit.

(9) General Conditions.

(H) Implementation Schedule for Protection of Whole Body Contact and Secondary Contact Recreation. Upon the first renewal of each permit upon the effective date of this rule, each permit shall be modified to contain a compliance schedule that provides up to three (3) years for the permittee to either install disinfection systems, present an evaluation sufficient to show that disinfection is not required to protect one or both designated recreational uses, or present a use attainability analyses (UAA) that demonstrates one or both designated recreational uses are

not attainable in the classified waters receiving the effluent. Permit applications received after the effective date of this rule for newly constructed or upgraded facilities shall comply with this subsection upon permit issuance.

(I) Temporary Suspension of Accountability for Bacteria Standards during Wet Weather. The accountability for bacteria standards may be temporarily suspended for specific discharges when conditions contained in paragraphs (9)(I)1. through 3. are met.

1. No recreational use exists within two (2) miles downstream of the discharge during the period of suspension as confirmed through a use assessment.

2. Compliance with water quality based discharge controls more stringent than secondary treatment standards for domestic wastewater treatment systems, approved watershed management plans, or approved long-term control plans (LTCs) for combined sewer overflows (CSOs) would result in substantial and widespread economic and social impact.

3. The Missouri Clean Water Commission has approved the suspension.

AUTHORITY: section 644.026, RSMo [Supp. 1999] 2000. Original rule filed June 6, 1974, effective June 16, 1974. For intervening history, please consult the Code of State Regulations. Amended: Filed March 31, 2005.

PUBLIC COST: This proposed amendment will cost state agencies or political subdivisions less than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will cost private entities less than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Department of Natural Resources, Water Protection and Soil Conservation Division, Water Protection Program, Marlene Kirchner, Missouri Clean Water Commission Secretary, PO Box 176, Jefferson City, MO 65102, phone (573) 751-1300. To be considered, comments must be postmarked by 5:00 p.m. July 14, 2005. A public hearing is scheduled for 9:00 a.m., July 6, 2005, in the Best Western Moberly Inn, 1200 Highway 24 East, Moberly, Missouri. Opportunity to be heard at the hearing shall be afforded any interested person. The public hearing is scheduled during the regular Missouri Clean Water Commission meeting and will occur after previous meeting minutes are discussed, shortly after 9:00 a.m.

Title 10—DEPARTMENT OF NATURAL RESOURCES Division 20—Clean Water Commission Chapter 7—Water Quality

PROPOSED AMENDMENT

10 CSR 20-7.031 Water Quality Standards. The Department of Natural Resources is amending (1)(C)8. to state all waters listed in Tables G and H will be designated for whole body contact recreation, (1)(C)9. to revise the definition of boating and canoeing and rename the use to secondary contact recreation, (1)(G) to add definition of early life stages, (1)(L)/(M) to update the name change of Geological Survey and Resource Assessment Division, (1)(M)/(N) to add language to clarify mixing zone implementation, revise definitions of seven (7)-day Q_{10} and sixty (60)-day Q_{10} , and add definitions of thirty (30)-day Q_{10} and one (1)-day Q_{10} , (1)(S) to add definition of reference lakes or reservoirs, (1)(V) to add definition of

water effect ratio, (1)/(7)/(W) to clarify hardness definition regarding the twenty-fifth percentile, (1)(Y) to add definition of waters of the state, (2)(D) to add language for antidegradation policy implementation development, (4)(A)/3./ to remove language associated with site-specific dissolved oxygen, (4)(A)/5./4. to not allow a mixing zone exemption for streams with seven (7)-day Q_{10} low flows of less than 0.1 cfs and remove any reference to classification (e.g., Class C streams), (4)(A)/6./5. to add language for wetland specific criteria derivation methods, (4)(B)1. to remove language associated with site-specific criteria for Tables A and B, (4)(B)2.B. to change analysis method for metals in drinking water supplies, (4)(B)6. to add language referencing hardness dependent metals criteria for aquatic life in Table A, (4)(B)7. to add language explaining the revised total ammonia nitrogen criteria in Table B, (4)(C) to revise language for bacterial indicator change and bacterial high flow exemption, (4)(E) to clarify unit of measurement for pH, (4)(L)/3./ to remove language for sulfate and chloride site-specific criteria, (4)(R) to add language for site-specific criteria methods for all water quality criteria for the protection of aquatic life, (7) to revise language for Outstanding National Resource Waters to be consistent with the antidegradation policy, (8) to revise language for Outstanding State Resource Waters to be consistent with the antidegradation policy, Table A to revise criteria and correct typographical mistakes, Table B to replace existing ammonia criteria with new criteria, Table C to correct minor errors, Table E to correct minor errors and add Bull Creek, Table G to correct minor errors and designate all waters for whole body contact recreation, Table H to correct minor errors and designate all waters for whole body contact recreation, and Table I to revise entries. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Water Protection Program at the address and phone number listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Environmental Regulatory Agenda website, www.dnr.mo.gov/regs/regagenda.htm or Water Protection Program Rule Development web site, <http://www.dnr.mo.gov/wpscd/wpcp/rules/wpp-rule-dev.htm>.

PURPOSE: This amendment fulfills an obligation under 40 CFR 131.20, which requires a state to review its water quality standards at least once every three (3) years. The following outlines draft changes to Missouri's Water Quality Standards (WQS) resulting from meetings with stakeholders, EPA, and department staff.

The addition of eight (8) definitions (whole body contact recreation category A, whole body contact recreation category B, early life stages, thirty (30)-day Q_{10} , one (1)-day Q_{10} , reference lakes or reservoirs, water effect ratio, and waters of the state) and revision to existing definitions (whole body contact recreation, boating and canoeing/secondary contact recreation, and low-flow conditions) will better clarify the Water Quality Standards.

In 2001, the Missouri Department of Natural Resources (MDNR or department) Division of Geology and Land Survey officially changed its title to the Geological Survey and Resource Assessment Division. Therefore, it is necessary to modify language in the WQS to reflect the change.

Missouri currently has an approved antidegradation policy but does not have an antidegradation implementation procedure. Language is included in this proposed amendment that provides for the development and use of antidegradation implementation procedures.

Language referencing modification of water quality standards and/or site specific criteria can be found in Missouri's dissolved oxygen criteria, Tables A and B criteria, and sulfate and chloride criteria. Although federal guidance allows site-specific adjustment of water quality criteria, EPA disapproved part of the language describing the application of specific criteria to waters with natural concentrations of dissolved oxygen below criteria. In response, the site-

specific criteria language in each of the listed paragraphs above will be removed and subsection (R) added, which describes the site-specific criteria development methods for the protection of aquatic life for all water quality standards.

Allowing mixing zones of any size in streams with a seven (7)-day Q_{10} of less than 0.1 cfs might not protect the aquatic life communities under all hydrological circumstances. Therefore the allowance for mixing zones in streams with seven (7)-day Q_{10} low flows of less than 0.1 cfs will not be allowed.

Language was added to 10 CSR 20-7.031(4) that reflects a more detailed method for how wetlands could be assigned specific criteria.

Missouri currently uses the dissolved metal analytic method for compliance with drinking water standards, which differs from federal criteria. Therefore, all drinking water supply metals shall be analyzed using the total recoverable method.

Metals criteria for aquatic life protection were recalculated using the most recent toxicity data sets that included genus *Ceriodaphnia*. The metals affected by this recalculation include cadmium, trivalent chromium (Cr^{+3}), hexavalent chromium (Cr^{+6}), copper, lead, nickel, silver, and zinc. The results of these criteria recalculations are equation based and, with the exception of hexavalent chromium, are hardness dependent. Also, the values in the table will be revised and based on the lowest (most protective) hardness value in the range list-ed.

New total ammonia nitrogen criteria was published in December 1999 by USEPA. Advances in research methods and increases in funding have allowed toxicologists to more accurately assess the toxicity of ammonia to aquatic life. The new ammonia criteria will be adopted to reflect improvements to the current (1984/88) criteria.

Missouri has been strongly encouraged to adopt EPA's **Ambient Water Quality Criteria for Bacteria—1986** for whole body contact recreation. Therefore, *E. coli* will be adopted as indicator bacteria and the 1986 criteria will apply for water bodies with whole body contact and secondary contact recreation designations.

Missouri currently allows exceedance of bacteria limits during periods of storm water runoff (high flow exemption). As currently stated, the high flow exemption might not ensure that whole body contact recreation is adequately protected. Also of concern, the high flow exemption is broad and qualitative. Therefore, the high flow exemption will be revised and moved to 10 CSR 20-7.015(9)(I) of the Effluent Regulations.

It has been stated that a couple of Missouri's WQS are inconsistent and/or conflict with the Antidegradation Policy. Maintaining consistency with Tier III in 10 CSR 20-7.031(2)(C), all dischargers into Outstanding National Resource Waters (ONRWs) and Outstanding State Resource Waters (OSRWs) or into their watershed must be subject to special effluent limitations as required in 10 CSR 20-7.015(6).

Several parameters in 10 CSR 20-7.031, Table A—Criteria for Designated Uses are currently inconsistent with federal criteria. The human health protection—fish consumption criteria affected include 2,4,6-trichlorophenol and *n*-nitrosopyrrolidene. The drinking water supply criteria affected include, 1,2,4,5-tetrachlorobenzene; 2,3,7,8-TCDD (dioxin); trihalomethanes; dichlorobromomethane; methylene chloride and 1, 2-dichloropropane. The criteria affected for both the protection of human health—fish consumption and drinking water supply include pentachlorobenzene; 4,4'-DDT; 4,4'-DDE; 4,4'-DDD; bis (chloromethyl) ether; bromoform; chlorodibromomethane; tetrachloroethylene; and D chloroform. All of the above criteria were changed to match federal criteria.

During EPA's review of 10 CSR 20-7.031, Table C—Water Bodies Designated for Cold-Water Fisheries with Tables G—Lake Classification and Use Designation and H—Stream Classification and Use Designations, six (6) waters designated for cold water fisheries had reduced mileage or were removed during past revisions. These waters have been restored to Table C and include the addition of Bull Shoals Lake (Ozark County) and Indian Creek (Franklin/Washington Counties) and corrections to L. Piney Creek

(Phelps County), N. Fork White River (Ozark County), S. Indian Creek (Newton/McDonald Counties), and Spring Creek (Douglas/Ozark Counties).

During the June 18, 2003 meeting, the Missouri Clean Water Commission directed staff to propose Bull Creek for Outstanding State Resource Water status. Bull Creek will be added for the mileage located within the Mark Twain National Forest in Christian County.

Several changes were made to 10 CSR 20-7.031, Table G—Lake Classification and Use Designation and Table H—Stream Classification and Use Designations to rectify discrepancies stated by EPA. A few changes requested by EPA were not needed due to misunderstandings or lack of information provided by the department during the last review.

Section 101(a)(2) of the CWA establishes as a national goal "water quality which provides for the protection and propagation of fish, shellfish, and wildlife and . . . recreation in and on the water," wherever attainable. This national goal is commonly referred to as the "fishable/swimmable" goal. Missouri currently lists all classified waters for aquatic life, but selectively lists water bodies for whole body contact recreation. Therefore all waters listed in 10 CSR 20-7.031 Tables G and H will be designated for whole body contact recreation on the effective date of this rule and an implementation schedule will be included within which affected permitted facilities must comply with the revised standard.

Several changes were made to 10 CSR 20-7.031, Table I—Biocriteria Reference Locations due to water withdrawal for irrigation, accessibility limitations, and refinement of selection processes.

When discovered, typographical errors found in the rule were corrected.

(1) Definitions.

(C) Beneficial water uses. Beneficial uses (1)(C)1.–11. of classified waters are identified in Tables G and H. Beneficial uses (1)(C)12.–15. of classified waters must be determined on a site-by-site basis and are therefore not listed in Tables G and H.

1. Irrigation—Application of water to cropland or directly to plants that may be used for human or livestock consumption. Occasional supplemental irrigation, rather than continuous irrigation, is assumed.

2. Livestock and wildlife watering—Maintenance of conditions to support health in livestock and wildlife.

3. Cold-water fishery—Waters in which naturally occurring water quality and habitat conditions allow the maintenance of a naturally reproducing or stocked trout fishery and other naturally reproducing populations of recreationally important fish species.

4. Cool-water fishery—Waters in which naturally occurring water quality and habitat conditions allow the maintenance of a sensitive, high-quality sport fishery (including smallmouth bass and rock bass) and other naturally reproducing populations of recreationally important fish species.

5. Protection of aquatic life (General warm-water fishery)—Waters in which naturally occurring water quality and habitat conditions allow the maintenance of a wide variety of warm-water biota, including naturally reproducing populations of recreationally important fish species. This includes all Ozark Class C and P streams, all streams with seven (7)-day Q_{10} low flows of more than one-tenth cubic [feet] foot per second (0.1 cfs), all P1 streams and all classified lakes. However, individual Ozark Class C streams may be determined to be limited warm-water fisheries on the basis of limited habitat, losing-stream classification, land-use characteristics or faunal studies which demonstrate a lack of recreationally important fish species.

6. Protection of aquatic life (Limited warm-water fishery)—Waters in which natural water quality and/or habitat conditions prevent the maintenance of naturally reproducing populations of recreationally important fish species. This includes non-Ozark Class C streams and non-Ozark Class P streams with seven (7)-day Q_{10} low

flows equal to or less than 0.1 cfs and Ozark Class C streams with the characteristics outlined in paragraph (1)(C)5.

7. Human health protection (Fish consumption [*and secondary contact recreation*])—Criteria to protect this use are based on the assumption of an average amount of fish consumed on a long-term basis. Protection of this use includes compliance with [*Federal*] **Food and Drug Administration (FDA)** limits for fish tissue, maximum water concentrations corresponding to the 10^{-6} cancer risk level and other human health fish consumption criteria. [*Secondary contact recreation assumes limited physical contact with the water without likelihood of water ingestion.*]

8. Whole [*/body /*]contact recreation—Activities in which there is direct human contact with the raw surface water to the point of complete body submergence. The raw water may be ingested accidentally and certain sensitive body organs, such as the eyes, ears and the nose, will be exposed to the water. Although the water may be ingested accidentally, it is not intended to be used as a potable supply unless acceptable treatment is applied. Water so designated is intended to be used for swimming, water skiing or skin diving. **All waters in Tables G and H of this rule are designated for whole body contact recreation. The use designation for whole body contact recreation may be removed or modified through a Use Attainability Analysis (UAA). Assignment of this use does not grant an individual the right to trespass when a land is not open to and accessible by the public through law or written permission of the landowner.**

A. Category A—This category applies to those water segments that have been established by the property owner as public swimming areas allowing full and free access by the public for swimming purposes and waters with existing whole body contact recreational use(s). Examples of this category include, but are not limited to, public swimming beaches and property where whole body contact recreational activity is open to and accessible by the public through law or written permission of the landowner.

B. Category B—This category applies to waters designated for whole body contact recreation not contained within category A.

9. [*Boating and canoeing—Activities in which limited contact with water is assumed*]. Secondary contact recreation—Uses include fishing, wading, commercial and recreational boating, any limited contact incidental to shoreline activities, and activities in which users do not swim or float in the water. These recreational activities may result in contact with the water that is either incidental or accidental and the probability of ingesting appreciable quantities of water is minimal. Assignment of this use does not grant an individual the right to trespass when a land is not open to and accessible by the public through law or written permission of the landowner.

10. Drinking water supply—Maintenance of a raw water supply which will yield potable water after treatment by public water treatment facilities.

11. Industrial process water and industrial cooling water—Water to support various industrial uses; since quality needs will vary by industry, no specific criteria are set in these standards.

12. Storm- and flood-water storage and attenuation—Waters which serve as overflow and storage areas during flood or storm events slowly release water to downstream areas, thus lowering flood peaks and associated damage to life and property.

13. Habitat for resident and migratory wildlife species, including rare and endangered species—Waters that provide essential breeding, nesting, feeding and predator escape habitats for wildlife including waterfowl, birds, mammals, fish, amphibians and reptiles.

14. Recreational, cultural, educational, scientific and natural aesthetic values and uses—Waters that serve as recreational sites for fishing, hunting and observing wildlife; waters of historic or archaeological significance; waters which provide great diversity for nature observation, educational opportunities and scientific study.

15. Hydrologic cycle maintenance—Waters hydrologically connected to rivers and streams serve to maintain flow conditions during periods of drought. Waters that are connected hydrologically to the groundwater system recharge groundwater supplies and assume an important local or regional role in maintaining groundwater levels.

(F) Classified waters—All waters listed as L1, L2 and L3 in Table G and P, P1 and C in Table H. During normal flow periods, some rivers back water into tributaries which are not otherwise classified. These permanent backwater areas are considered to have the same classification as the water body into which the tributary flows.

1. Class L1—Lakes used primarily for public drinking water supply.

2. Class L2—Major reservoirs.

3. Class L3—Other lakes [*which*] **that** are waters of the state. These include both public and private lakes. For effluent regulation purposes, publicly owned L3 lakes are those for which a substantial portion of the surrounding lands are publicly owned or managed.

4. Class P—Streams that maintain permanent flow even in drought periods.

5. Class P1—Standing-water reaches of Class P streams.

6. Class C—Streams that may cease flow in dry periods but maintain permanent pools which support aquatic life.

7. Class W—Wetlands that are waters of the state that meet the criteria in the *Corps of Engineers Wetlands Delineation Manual* (January 1987), and subsequent federal revisions. Class W waters do not include wetlands that are artificially created on dry land and maintained for the treatment of mine drainage, stormwater control, drainage associated with road construction, or industrial, municipal or agricultural waste. Class W determination on any specific site shall be consistent with federal law.

(G) Early life stages—**The pre-hatch embryonic period, the post-hatch free embryo or yolk-sac fry, and the larval period during which the organism feeds. Juvenile fish, which are anatomically rather similar to adults, are not considered an early life stage.**

[[G]] (H) Ecoregion—A major region within the state which contains waters with similar geological, hydrological, chemical and biological characteristics.

[[H]] (I) Epilimnion—Zone of atmospheric mixing in a thermostratified lake.

[[I]] (J) Fecal coliform bacteria—A group of bacteria originating in intestines of warm-blooded animals which indicates the possible presence of pathogenic organisms in water.

[[J]] (K) Hypolimnion—Zone beneath the zone of atmospheric mixing in a thermostratified lake.

[[K]] (L) Lethal concentration₅₀ (LC₅₀)—Concentration of a toxicant which would be expected to kill fifty percent (50%) of the individuals of the test species organisms in a test of specified length of time.

[[L]] (M) Losing stream—A stream which distributes thirty percent (30%) or more of its flow during low flow conditions through natural processes, such as through permeable geologic materials into a bedrock aquifer within two (2) miles' flow distance downstream of an existing or proposed discharge. Flow measurements to determine percentage of water loss must be corrected to approximate the seven (7)-day Q₁₀ stream flow. If a stream bed or drainage way has an intermittent flow or a flow insufficient to measure in accordance with this rule, it may be determined to be a losing stream on the basis of channel development, valley configuration, vegetation development, dye tracing studies, bedrock characteristics, geographical data and other geological factors. Losing streams are listed in Table J; additional streams may be determined to be losing by the [*Division of Geology and Land Survey*] **Geological Survey and Resource Assessment Division.**

[[M]] (N) Low-flow conditions—**Where used in this regulation in the context of mixing zones, the low-flow conditions shall refer to the minimum amount of stream flow occurring immediately**

upstream of a wastewater discharge and available, in whole or in part, for dilution or assimilation of wastewater discharges.

1. Seven (7)-day, one (1)-in-ten (10)-year low flow (7-day Q_{10})—The lowest average [minimum] flow for seven (7) consecutive days that has a probable recurrence interval of once-in-ten (10) years[; and].

2. Sixty (60)-day, one (1)-in-two (2)-year low flow (60-day[; $Q_{12/2}$])—The lowest average [minimum] flow for sixty (60) consecutive days that has a probable recurrence interval of once-in-two (2) years.

3. Thirty (30)-day, one (1)-in-ten (10)-year low flow (30-day Q_{10})—The lowest average flow for thirty (30) consecutive days that has a probable recurrence interval of once-in-ten (10) years.

4. One (1)-day, one (1)-in-ten (10)-year low flow (1-day Q_{10})—The lowest average flow for one (1) day that has a probable recurrence interval of once-in-ten (10) years.

[(N)] (O) Mixing zone—An area of dilution of effluent in the receiving water beyond which chronic toxicity criteria must be met.

[(O)] (P) Outstanding national resource waters—Waters which have outstanding national recreational and ecological significance. These waters shall receive special protection against any degradation in quality. Congressionally designated rivers, including those in the Ozark national scenic riverways and the wild and scenic rivers system, are so designated (see Table D).

[(P)] (Q) Outstanding state resource waters—High quality waters with a significant aesthetic, recreational or scientific value which are specifically designated as such by the Clean Water Commission (see Table E).

[(Q)] (R) Ozark streams—Streams lying within the Ozark faunal region as described in the *Aquatic Community Classification System for Missouri*, Missouri Department of Conservation, 1989.

(S) Reference lakes or reservoirs—Lakes or reservoirs determined by Missouri Department of Natural Resources to be the best available representatives of ecoregion waters in a natural condition with respect to habitat, water quality, biological integrity and diversity, watershed land use, and riparian conditions.

[(R)] (T) Reference stream reaches—Stream reaches determined by the department to be the best available representatives of ecoregion waters in a natural condition, with respect to habitat, water quality, biological integrity and diversity, watershed land use and riparian conditions.

[(S)] (U) Regulated-flow streams—A stream that derives a majority of its flow from an impounded area with a flow-regulating device.

(V) Water effect ratio—Appropriate measure of the toxicity of a material obtained in a site water divided by the same measure of the toxicity of the same material obtained simultaneously in a laboratory dilution water.

[(T)] (W) Water hardness—The total concentration of calcium and magnesium ions expressed as calcium carbonate. For purposes of this rule, hardness will be determined by the lower twenty-fifth percentile value[, so that no more than twenty-five percent (25%) of samples fall below the value] of a representative number of samples from the water body in question or from a similar water body at the appropriate stream flow conditions.

[(U)] (X) Water quality criteria—Chemical, physical and biological properties of water that are necessary to protect beneficial water uses.

[(V)] (Y) Zone of initial dilution—A small area of initial mixing below an effluent outfall beyond which acute toxicity criteria must be met.

(W) Zone of passage—A continuous water route necessary to allow passage of organisms with no acutely toxic effects produced on their populations.

(X) Wetlands—Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for

life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas. This definition is consistent with both the United States Army Corps of Engineers 33 CFR 328.3(b) and the United States Environmental Protection Agency 40 CFR 232.2(r).

(Y) Whole effluent toxicity tests—A toxicity test conducted under specified laboratory conditions on specific indicator organisms. To estimate chronic and acute toxicity of the effluent in its receiving stream, the effluent may be diluted to simulate the computed percent effluent at the edge of the mixing zone or zone of initial dilution.]

(Y) Waters of the state—All rivers, streams, lakes, and other bodies of surface and subsurface water lying within or forming a part of the boundaries of the state which are not entirely confined and located completely upon lands owned, leased, or otherwise controlled by a single person or by two (2) or more persons jointly or as tenants in common and includes waters of the United States lying within the state.

(Z) Wetlands—Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas. This definition is consistent with both the United States Army Corps of Engineers 33 CFR 328.3(b) and the United States Environmental Protection Agency 40 CFR 232.2(r).

(AA) Whole effluent toxicity tests—A toxicity test conducted under specified laboratory conditions on specific indicator organisms. To estimate chronic and acute toxicity of the effluent in its receiving stream, the effluent may be diluted to simulate the computed percent effluent at the edge of the mixing zone or zone of initial dilution.

(BB) Zone of initial dilution—A small area of initial mixing below an effluent outfall beyond which acute toxicity criteria must be met.

(CC) Zone of passage—A continuous water route necessary to allow passage of organisms with no acutely toxic effects produced on their populations.

[(Z)](DD) Other definitions as set forth in the Missouri Clean Water Law and 10 CSR 20-2.010 shall apply to terms used in this rule.

(2) Antidegradation. The antidegradation policy shall provide three (3) levels of protection.

(A) **Tier One.** Public health, existing in-stream water uses and a level of water quality necessary to protect existing uses shall be maintained and protected.

(B) **Tier Two.** For all waters of the state, if existing water quality is better than applicable water quality criteria established in these rules, that existing quality shall be fully maintained and protected. Water quality may be lowered only if the state finds, after full satisfaction of the intergovernmental coordination and public participation requirements, that the lowered water quality is necessary to allow important economic and social development in the geographical area in which the waters are located. In allowing the lowering of water quality, the state shall assure that there shall be achieved the highest statutory and regulatory requirements for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control before allowing any lowering of water quality. This provision allows a proposed new or modified point or nonpoint source of pollution to result in limited lowering of water quality provided that—

1. The source does not violate any of the general criteria set forth in section (3) of this rule, or any of the criteria for protection of beneficial uses set forth in section (4) of this rule;

2. The source meets all applicable technological effluent limitations and minimum standards of design for point sources or minimum pollution control practices for nonpoint sources; and

3. The lowering of water quality, in the judgment of the department, is necessary for the accommodation of important economic and social development in the geographical vicinity of the discharge. In making a preliminary determination based on socioeconomic development considerations, the department may consider the potential for regional increases in utility rates, taxation levels or recoverable costs associated with the production of goods or services that may result from the imposition of a strict no-degradation policy. Consideration may also be given to the possible indirect effects of a policy on per capita income and the level of employment in the geographical vicinity of the proposed pollution source. Any preliminary decision by the department to allow a limited lowering of water quality will be stated as such in a public notice issued pursuant to 10 CSR 20-6.010. Pursuant to that provision, a public hearing will be held in the geographical vicinity of the proposed pollution source, if the department determines there is significant public interest in and need for a hearing.

(C) **Tier Three.** There shall be no lowered water quality in outstanding national resource waters or outstanding state resource waters, as designated in Tables D and E.

(D) The three (3) levels of protection provided by the anti-degradation policy in subsections (A) through (C) of this section shall be implemented according to procedures developed by the department. The anti-degradation implementation procedure shall go through stakeholder development and the finalized procedure shall be referenced by this rule before it becomes effective.

(4) **Specific Criteria.** The specific criteria shall apply to classified waters. Protection of drinking water supply is limited to surface waters designated for raw drinking water supply and aquifers. Protection of whole/-/ body/-/ contact recreation is limited to classified waters designated for that use. Only waters designated for livestock and wildlife watering are considered to be long-term supplies and are subject to the chronic toxicity requirements of the specific criteria.

(A) The maximum chronic toxicity criteria in Tables A and B shall apply to waters designated for the indicated uses given in Tables G and H. All Table A and B criteria are chronic toxicity criteria, except those specifically identified as acute criteria. Water contaminants shall not cause or contribute to concentrations in excess of these values. Table A values listed as health advisory levels shall be used in establishing discharge permit limits and management strategies until additional data becomes available to support alternative criteria, or other standards are established. However, exceptions may be granted in the following cases:

1. Permanent flow streams when the stream flow is less than seven (7)-day Q_{10} ;

2. Regulated flow streams if the flow is less than the minimum release flow agreed upon by the regulating agencies;

[3. When natural upstream concentration of dissolved oxygen are below the criteria, wasteload allocations and permits for point source discharges will be developed so that existing natural dissolved oxygen concentrations, as determined on a regional or watershed basis, are maintained;]

[4.] 3. For the natural and unavoidable chemical and physical changes that occur in the hypolimnion of lakes. Streams below impoundments shall meet applicable specific criteria;

[5.] 4. For mixing zones.

A. The mixing zone shall be exempted from the chronic criteria requirements of this section for those components of waste that are rendered nontoxic by dilution, dissipation or rapid chemical transformation. Acute numeric criteria of Tables A and B and whole effluent acute toxicity requirements of subsection (3)(I) must be met at all times within the mixing zone, except within the zone of initial

dilution. The following criteria do not apply to thermal mixing zones. Criteria for thermal mixing zones are listed in paragraph (4)(D)6.

B. The maximum size of mixing zones and zone of initial dilution will be determined as follows:

(I) *[Class C streams and s/Streams with seven (7)-day Q_{10} low flows of less than 0.1 cfs [or less].*

(a) Mixing zone—*[length of one-quarter (1/4) mile. If multiple discharges affect a reach or if zone of passage requirements mandate less extensive mixing zones, shorter mixing zones may be required.] not allowed; and*

(b) Zone of initial dilution—not allowed;

(II) Streams with seven (7)-day Q_{10} low flow of one-tenth to twenty (0.1–20) cfs—

(a) Mixing zone—one-quarter (1/4) of the stream width, cross-sectional area or volume of flow; length one-quarter (1/4) mile. If the discharger can document that rapid and complete mixing of the effluent occurs in the receiving stream, the mixing zone may be up to one-half (1/2) of the stream width, cross-sectional area or volume of flow; and

(b) Zone of initial dilution—one-tenth (0.1) of the mixing zone width, cross-sectional area or volume of flow;

(III) Streams with seven (7)-day Q_{10} low flow of greater than twenty (20) cfs—

(a) Mixing zone—one-quarter (1/4) of stream width, cross-sectional area or volume of flow; length of one-quarter (1/4) mile; and

(b) Zone of initial dilution—one-tenth (0.1) of the mixing zone width, cross-sectional area or volume of flow and no more than ten (10) times the effluent design flow volume unless the use of diffusers or specific mixing zone studies can justify more dilution; and

(IV) Lakes.

(a) Mixing zone—not to exceed one-quarter (1/4) of the lake width at the discharge point or one hundred feet (100') from the discharge point, whichever is less.

(b) Zone of initial dilution—not allowed.

C. A mixing zone shall not overlap another mixing zone in a manner that the maintenance of aquatic life in the body of water in the overlapping area would be further adversely affected.

D. Other factors that may prohibit or further limit the size and location of mixing zones are the size of the river, the volume of discharge, the stream bank configuration, the mixing velocities, other hydrologic or physiographic characteristics and the designated uses of the water, including type of aquatic life supported, potential effects on mouths of tributary streams and proximity to water supply intakes.

E. Zones of passage must be provided wherever mixing zones are allowed.

F. Mixing zone and zone of initial dilution size limits will normally be based on streams at the seven (7)-day Q_{10} low flow. However, this percent of stream size limits also applies at higher stream flows and discharge limitations may be based on higher stream flows if discharge volume or quality may be adjusted to correlate with stream flow; and

[6.] 5. For wetlands. Water quality needs will vary depending on the individual characteristics of wetlands. Application of numeric criteria will depend on the specific aquatic life, wildlife and vegetational requirements.

A. **Specific criteria for wetlands shall be developed using scientific procedures including, but not limited to, those procedures described in the U.S. Environmental Protection Agency's "Water Quality Standards Handbook," Second Edition, August 1994.**

B. **Specific criteria shall protect all life stages of species associated with wetlands and prevent acute and chronic toxicity in all parts of the wetland.**

C. Specific criteria shall include both chronic and acute concentrations to better reflect the different tolerances to the inherent variability between concentrations and toxicological characteristics of a condition.

D. Specific criteria shall be clearly identified as maximum "not to be exceeded" or average values, and if an average, the averaging period and the minimum number of samples. The conditions, if any, when the criteria apply shall be clearly stated (e.g., specific levels of hardness, pH, or water temperature). Specific sampling requirements (e.g., location, frequency), if any, shall also be identified.

E. The data, testing procedures, and application (safety) factors used to develop specific criteria shall reflect the nature of the condition (e.g., persistency, bioaccumulation potential) and the most sensitive species associated with the wetland.

F. Each specific criterion shall be promulgated in rule 10 CSR 20-7.031. The public notice shall include a description of the affected wetland and the reasons for applying the proposed criterion. A public hearing may be held in the geographical vicinity of the affected wetland. Any specific criterion promulgated under these provisions is subject to U.S. EPA approval prior to becoming effective.

(B) Toxic Substances.

1. Water contaminants shall not cause the criteria in Tables A and B to be exceeded. Concentrations of these substances in bottom sediments or waters shall not harm benthic organisms and shall not accumulate through the food chain in harmful concentrations, nor shall state and federal maximum fish tissue levels for fish consumption be exceeded. More stringent criteria may be imposed if there is evidence of additive or synergistic effects. *[Site-specific criterial modifications may be allowed. With the department's approval, entities may conduct studies to determine if site-specific factors would justify modifications in the criteria that apply to specific receiving waters. In approving a study and reviewing its results, the department will take into account EPA and other appropriate guidelines as they exist at the time the study is submitted for approval.]*

2. For compliance with this rule, metals shall be analyzed by the following methods:

A. Aquatic life protection and human-health protection fish consumption.

(I) Mercury—total recoverable metals.

(II) All other metals—dissolved metals;

B. Drinking water supply—*[dissolved metals]* total recoverable metals; and

C. All other beneficial uses—total recoverable metals.

3. Other potentially toxic substances for which sufficient toxicity data are not available may not be released to waters of the state until safe levels are demonstrated through adequate bioassay studies.

4. Drinking water criteria, for substances which are rendered nontoxic by transformation processes in the surface water body, shall apply at water supply withdrawal points.

5. Site-specific alternative criteria for human health—fish consumption may be allowed. Designation of this site-specific criteria must follow the established variance request process.

6. Metals criteria for which toxicity is hardness dependent are in equation format in Table A.

7. Total ammonia nitrogen. For any given sample, the total ammonia nitrogen criteria shall be based on the pH and temperature of the water body measured at the time of each sample at the point of compliance.

A. The acute criteria shall not be exceeded at any time except in those waters for which the department has allowed a zone of initial dilution (ZID). The one (1)-day Q_{10} low flow condition will be used in determining acute total ammonia nitrogen criteria.

B. The chronic criteria shall not be exceeded except in water segments for which the department has allowed a mixing

zone (MZ). The chronic criteria shall be based on a thirty (30)-day exposure period. Therefore, the thirty (30)-day Q_{10} low flow condition of the receiving water body will be used in determining chronic total ammonia nitrogen criteria.

C. Without sufficient and reliable data, it is assumed that early life stages are present and must be protected at all times of the year.

(I) Sufficient and reliable data shall include, but is not limited to, seasonal studies on the fish species distributions, spawning periods, nursery periods, duration of sensitive life stages, and water body temperature. Best professional judgment from fisheries biologists and other scientists will be considered as appropriate.

(II) The time frames during the year when early life stages are considered to be absent are those time periods when early life stages are present in numbers that, if chronic toxicity did occur, would not affect the long-term success of the populations.

(III) A source of information for determining the duration of early life stages is *The American Society for Testing and Materials (ASTM) Standard E-1241*, "Standard Guide for Conducting Early Life-Stage Toxicity Tests with Fishes."

(IV) Protection of early life stages should include the most sensitive species that have used a water body for spawning and rearing since November 28, 1975.

(C) *[Fecal Coliform]* Bacteria. Protection/s of whole *[-]* body *[-]* contact recreation is limited to classified waters designated for that use. *[For periods when the stream or lake is not affected by storm water runoff,]* Either of the following bacteria criterion shall apply until a date three (3) years from the effective date of this rule; at which time, only *E. coli* criterion shall apply. The recreational season is from April 1 to October 31.

1. Fecal coliform bacteria—the fecal coliform count shall not exceed *[two hundred colonies per one hundred milliliters (200/100 ml)]* the criterion listed in Table A as a geometric mean during the recreational season in waters designated for whole *[-]* body *[-]* contact recreation *[or]*. The fecal coliform count shall not exceed two hundred (200) colonies per one hundred milliliters (100 mL) at any time in losing streams. *[The recreational season is from April 1 to October 31.]* For waters designated for secondary contact recreation, the fecal coliform count shall not exceed one thousand eight hundred (1,800) colonies per one hundred milliliters (100 mL) as a geometric mean during the recreational season; or

2. *E. Coli* bacteria—the *E. coli* count shall not exceed the criterion listed in Table A as a geometric mean during the recreational season in waters designated for whole body contact recreation. The *E. coli* count shall not exceed one hundred twenty-six (126) colonies per one hundred milliliters (100 mL) at any time in losing streams. For waters designated for secondary contact recreation, the fecal coliform count shall not exceed one thousand one hundred thirty-four (1,134) colonies per one hundred milliliters (100 mL) as a geometric mean during the recreational season.

(D) Temperature.

1. For general and limited warm-water fisheries beyond the mixing zone, water contaminant sources and physical alteration of the water course shall not raise or lower the temperature of a stream more than five degrees Fahrenheit (5°F) or two and seven-ninths degrees Celsius (2 7/9 °C). Water contaminant sources shall not cause or contribute to stream temperature in excess of ninety degrees Fahrenheit (90°F) or thirty-two and two-ninths degrees Celsius (32 2/9 °C). However, site-specific ambient temperature data and requirements of sensitive resident aquatic species will be considered, when data are available, to establish alternative maxima or deviations from ambient temperatures.

2. For cool-water fisheries beyond the mixing zone, water contaminant sources and physical alteration of the water course shall not

raise or lower the temperature of a stream more than five degrees Fahrenheit (5°F) or two and seven-ninths degrees Celsius (2 7/9 °C). Water contaminant sources shall not cause or contribute to stream temperature in excess of eighty-four degrees Fahrenheit (84°F) or twenty-eight and eight-ninths degrees Celsius (28 8/9 °C).

3. For cold-water fisheries beyond the mixing zone, water contaminant sources and physical alteration of the water course shall not raise or lower the temperature of the water body more than two degrees Fahrenheit (2°F) or one and one-ninth degrees Celsius (1 1/9 °C). Water contaminant sources shall not cause or contribute to temperatures above sixty-eight degrees Fahrenheit (68°F) or twenty degrees Celsius (20°C).

4. Water contaminant sources shall not cause any measurable rise in the temperature of lakes. An increase is allowable for Lake Springfield, Thomas Hill Reservoir and Montrose Lake; however, discharges from these lakes must comply with temperature limits for streams.

5. For the Mississippi River Zones 1A and 2, the water temperature outside the mixing zone shall not exceed the maximum limits indicated in the following list during more than one percent (1%) of the time in any calendar year. In Zone 1B, limits may not be exceeded more than five percent (5%) of the time in a calendar year. At no time shall the river water temperature outside of the thermal mixing zone exceed the listed limits by more than three degrees Fahrenheit (3°F) or one and six-ninths degrees Celsius (1 6/9 °C).

	A[,] and B		C	
	(°F)	(°C)	(°F)	(°C)
January	45	7 2/9	50	10
February	45	7 2/9	50	10
March	57	13 8/9	60	15 5/9
April	68	20	70	21 1/9
May	78	25 5/9	80	26 6/9
June	86	30	87	30 5/9
July	88	31 1/9	89	31 6/9
August	88	31 1/9	89	31 6/9
September	86	30	87	30 5/9
October	75	23 8/9	78	25 5/9
November	65	18 3/9	70	21 1/9
December	52	11 1/9	57	13 8/9

A = Zone 1A—Des Moines River to Lock and Dam No. 25.

B = Zone 1B—Lock and Dam No. 25 to Lock and Dam No. 26.

C = Zone 2—Lock and Dam No. 26 to the Missouri-Arkansas state line.

6. Thermal mixing zones shall be limited to twenty-five percent (25%) of the cross-sectional area or volume of a river, unless biological surveys performed in response to section 316(a) of the federal Clean Water Act (or equivalent) indicate no significant adverse impact on aquatic life. Thermal plume lengths and widths within rivers, and all plume dimensions within lakes, shall be determined on a case-by-case basis and shall be based on physical and biological surveys when appropriate.

(E) pH. Water contaminants shall not cause pH to be outside of the range of 6.5[–] to 9.0 standard pH units.

(L) Sulfate and Chloride Limit for Protection of Aquatic Life.

1. Streams with seven (7)-day Q_{10} low flow of less than one (1) cubic foot per second. The concentration of chloride plus sulfate shall not exceed one thousand milligrams per liter (1,000 mg/[L]) [at the seven (7)-day Q_{10} low flow]. Table A includes additional chloride criteria.

2. Class P1, L1, L2 and L3 waters and streams with seven (7)-day Q_{10} low flow of more than one (1) cubic foot per second. The total chloride plus sulfate concentration shall not exceed the estimated natural background concentration by more than twenty percent (20%) at the sixty (60)-day Q_{10} low flow.

[3. If higher concentrations can be demonstrated through bioassays or studies not to be detrimental to indigenous aquatic life, then an appropriate higher concentration shall be allowed.]

(Q) Biocriteria. The biological integrity of waters, as measured by lists or numeric diversity indices of benthic invertebrates, fish, algae or other appropriate biological indicators, shall not be significantly different from reference waters. Waters shall be compared [with] to reference waters of similar size within an ecoregion. Reference water locations are listed in Table I.

(R) Site-specific Criteria Development for the Protection of Aquatic Life. When water quality criteria in this regulation are either underprotective or overprotective of water quality due to natural, non-anthropogenic conditions for a given water body segment, a petitioner may request site-specific criteria. The petitioner must provide the department with sufficient documentation to show that the current criteria are not adequate and that the proposed site-specific criteria will protect all existing and/or potential uses of the water body.

1. Site-specific criteria may be appropriate where, but is not limited to:

A. The resident aquatic species of the selected water body have a different degree of sensitivity to a specific pollutant as compared to those species in the data set used to calculate the national or state criteria.

(I) Natural adaptive processes have enabled a viable, balanced aquatic community to exist in waters where natural (non-anthropogenic) background conditions exceed the criterion (e.g., resident species have evolved a genetically based greater tolerance to high concentrations of a chemical).

(II) The composition of aquatic species in a water body is different from those used in deriving a criterion (e.g., most of the species considered among the most sensitive, such as salmonids or the cladoceran, *Ceriodaphnia dubia*, which were used in developing a criterion, are absent from a water body).

B. The physical and/or chemical characteristics of the water body alter the biological availability and/or toxicity of the pollutant (e.g., pH, alkalinity, salinity, water temperature, hardness).

2. All petitioners seeking to develop site-specific criteria shall coordinate with the department early in the process. This coordination will insure the use of adequate, relevant, and quality data; proper analysis and testing; and defensible procedures. The department will provide guidance for establishing site-specific water quality criteria using scientific procedures including, but not limited to, those procedures described in the U. S. Environmental Protection Agency's "Water Quality Standards Handbook," Second Edition, August 1994.

3. Site-specific criteria shall protect all life stages of resident species and prevent acute and chronic toxicity in all parts of a water body.

4. Site-specific criteria shall include both chronic and acute concentrations to better reflect the different tolerances of resident species to the inherent variability between concentrations and toxicological characteristics of a chemical.

5. Site-specific criteria shall be clearly identified as maximum "not to be exceeded" or average values, and if an average, the averaging period and the minimum number of samples. The conditions, if any, when the criteria apply shall be clearly stated (e.g., specific levels of hardness, pH, or water temperature). Specific sampling requirements (e.g., location, frequency), if any, shall also be identified.

6. The data, testing procedures, and application (safety) factors used to develop site-specific criteria shall reflect the nature of the chemical (e.g., persistency, bioaccumulation potential, and avoidance or attraction responses in fish) and the most sensitive resident species of a water body.

7. The size of a site may be limited to a single stream segment or may cover a whole watershed depending on the particular situation for which the specific criterion is developed. A group of water bodies may be considered one site if their respective aquatic communities are similar in composition and have comparable water quality.

8. The department shall determine if a site-specific criterion is adequate and justifiable. Each site-specific criterion shall be promulgated into rule 10 CSR 20-7.031. The public notice shall include a description of the affected water body or water body segment and the reasons for applying the proposed criterion. If the department determines that there is significant public interest, a public hearing may be held in the geographical vicinity of the affected water body or water body segment. Any site-specific criterion promulgated under these provisions is subject to U.S. EPA approval prior to becoming effective.

(5) Groundwater.

(A) Water contaminants shall not cause or contribute to exceedance of Table A, *[Column VII] groundwater* limits in aquifers and caves. Table A values listed as health advisory levels shall be used in establishing management strategies and groundwater cleanup criteria, until additional data becomes available to support alternative criteria or other standards are established. Substances not listed in Table A shall be limited so that drinking water, livestock watering and irrigation uses are protected.

(B) When criteria for the protection of aquatic life or human health protection—fish consumption in *[Column I or II of] Table A* are more stringent than *[Column VII] groundwater* criteria, appropriate *[Column I or II]* criteria for the protection of aquatic life or human health protection—fish consumption shall apply to waters in caves and to aquifers which contribute an important part of base flow of surface waters designated for aquatic life protection. Other substances not listed in Table A shall be limited in these aquifers and caves so that the aquatic life use is protected.

(C) *[Column VIII] Groundwater* and other criteria shall apply in any part of the aquifer, including the point at which the pollutant enters the aquifer. A specific monitoring depth requirement for releases to aquifers is included in 10 CSR 20-7.015(7)(A).

(D) For aquifers in which contaminant concentrations exceed *[Column VII] groundwater* criteria or other protection criteria, and existing and potential uses are not impaired, alternative site-specific criteria may be allowed. To allow alternative criteria, the management authority must demonstrate that alternative criteria will not impair existing and potential uses. The demonstration must consider the factors and be subject to the review requirements of 10 CSR 20-7.015(7)(F).

(7) Outstanding National Resource Waters. *[Under section (2), antidegradation section of this rule, new releases to outstanding national resource waters from any source other than publicly-owned waste treatment facilities and mine dewatering water are prohibited and releases from allowed facilities] All discharges into these waters or into the watershed of these waters* are subject to special effluent limitations as required in 10 CSR 20-7.015(6)/(A)3./ Table D contains a list of the outstanding national resource waters in Missouri.

(8) Outstanding State Resources Waters.

[(A)] The commission wishes to recognize certain high-quality waters that may require exceptionally stringent water-quality management requirements to assure conformance with the antidegradation policy. *[The degree of management requirements will be decided on an individual basis. To qualify for inclusion, all of the following criteria must be met.] All discharges into these waters or into the watershed of these waters* are subject to special effluent limitations as required in 10 CSR 20-7.015(6). Table E

contains a list of the outstanding state resource waters in Missouri. The waters listed in Table E must—

[1.] (A) Have a high level of aesthetic or scientific value;

[2.] (B) Have an undeveloped watershed; and

[3.] (C) Be located on or pass through lands which are state or federally owned, or which are leased or held in perpetual easement for conservation purposes by a state, federal, or private conservation agency or organization.

(10) **Compliance with Water Quality Based Limitations.** Compliance with new or revised National Pollutant Discharge Elimination System (NPDES) or Missouri operating permit limitations based on criteria in this rule shall be achieved with all deliberate speed and no later than three (3) years from the date of issuance of the permit.

Table A—Criteria for Designated Uses

[I]AQL	=	Protection of Aquatic Life
[II]	=	<i>Human Health Protection—Fish Consumption</i>
[III]DWS	=	Drinking Water Supply
[IV]GRW	=	<i>[Irrigation] Groundwater</i>
[V]LWW	=	Livestock, Wildlife Watering
[VI]WBC	=	Whole-/Body-/Contact Recreation
[VII]SCR	=	<i>[Groundwater] Secondary Contract Recreation</i>

Pollutant (µg/L)	[I]AQL	[II]	[III]	[IV]	V	VI	VII]
Chlorine (total residual)							
cold-water	2						
warm-water chronic—	10						
acute—	19						
Cyanide (amenable to chlorination)							
chronic—	5						
acute—	22						
Hydrogen sulfide (un-ionized)	2						
Pollutant (mg/L)	[I]AQL	[III]	[III]DWS	[IV]GRW	[V]LWW	[VI]	VII]
Chloride chronic—	230(+)		250				
acute—	860(+)						
Sulfate (+)			250				
Fluoride			4	4	4		[4]
Nitrate-N			10	10			[10]
Dissolved oxygen (minimum)							
warm-water and cool-water fisheries	5						
cold-water fisheries	6						
Oil and grease	10						

+See *[subsection] 10 CSR 20-7.031(4)(L)*.

Pollutant (colonies/100 mL)	[I]WBC-A	[II]WBC-B	[III]SCR	[IV]	V	VI	VII]
Fecal Coliform Bacteria	200		1800				[200]
<i>E.coli</i> Bacteria*	126	548	1134				

*Geometric mean during the recreational season in waters designated for recreation or at any time in losing streams. The recreational season is from April 1 to October 31.

Pollutant [(°F)]	[I]AQL	[II]	[III]	[IV]	V	VI	VII]
Temperature (maximum)	°F °C						
warm-water	90 32 2/9						
cool-water	84 28 8/9						
cold-water	68 20						
Temperature (maximum change)							
warm-water	5 2 7/9						
cool-water	5 2 7/9						
cold-water	2 1 6/9						
Pollutant (percent saturation)	[I]AQL	[II]	[III]	[IV]	V	VI	VII]
Total Dissolved Gases	110%						

[I/AQL =	Protection of Aquatic Life
[II/HHF =	Human Health Protection—Fish Consumption
[III/DWS =	Drinking Water Supply
[IV/IRR =	Irrigation
[V/LWW =	Livestock, Wildlife Watering
[VI =	<i>Whole-Body-Contact Recreation</i>
[VII/GRW =	Groundwater

Pollutant (µg/L)	[I]AQL	[II]HHF	[III]DWS	[IV]IRR	[V]LWW	[VI VII]GRW
Metals (Non-hardness Dependent)						
Aluminum (acute)	750					
Antimony		4300	6			6
Arsenic	20		50	100		50
Barium			2000			2000
Beryllium	5		4	100		4
Boron				2000	[2000]	2000
Cadmium	*	[Hardness]		5		5
		[< 125 125–200 > 200]				
[chronic:						
CWF		1.1	1.4	1.8		
Lakes		9.1	9.1	9.1		
GWWF		9.1	11.8	15.5		
LWWF		11.8	16.4	20		
acute:						
CWF		3.7	5.9	8.1		
Lakes & GWWF		31	49	68		
LWWF		43	68	94]		
Chromium II	*	[Hardness]		100	100	100
[chronic:						
Lakes		11 µg/l				
CWF, GWWF		42				
LWWF		190				
acute:						
Lakes		16 µg/l				
CWF & GWWF		62				
LWWF		280]				
Chromium VI						
chronic	10					
acute	15					
Cobalt					1000	1000
Copper	*	[Hardness]		1300	500	1300
		[< 125 125–200 > 200]				
[chronic:						
Lakes, CWF, GWWF		19 µg/l	28	36		
LWWF		29	41	53		
acute:						
Lakes, CWF, GWWF		29	43	56		
LWWF		44	64	84]		
Iron	1000			300		300
Lead	*	[Hardness]		15		15
		[< 125 125–200 > 200]				
[chronic:						
all waters		9	16	23		
acute:						
all waters		63	104	150]		

[CWF = Cold-water fishery

GWFF = General warm-water fishery

LWWF = Limited warm-water fishery]

*See Metals (Hardness Dependent)

[I/AQL	=	Protection of Aquatic Life
[II/HHF	=	Human Health Protection—Fish Consumption
[III/DWS	=	Drinking Water Supply
[IV/IRR	=	Irrigation
[V/LWW	=	Livestock, Wildlife Watering
[VI	=	<i>Whole-Body-Contact Recreation]</i>
[VII/GRW	=	Groundwater

Pollutant (µg/L)	[I]AQL			[II]HHF	[III]DWS	[IV]IRR	[V]LWW	[VI VII]GRW
Metals (Non-hardness Dependant) continued								
Manganese					50			50
Mercury					2			2
	chronic:	0.5						
	[all waters	0.5]						
	acute:	2.4						
	[all waters	2.4]						
Nickel		*	[Hardness]		100			100
		[< 125	125—200	> 200]				
	[chronic:							
	Lakes	160	220	280				
	CWF, GWWF	360	500	650				
	LWWF	425	600	770				
	acute:							
	Lakes	1400	2000	2500				
	CWF, GWWF	3200	4600	5800				
	LWWF	3800	5400	6900]				
Selenium		5			50			50
Silver		*	[Hardness]		50			50
		[< 125	125—200	> 200]				
	[acute:							
	all waters	3.5	7	11]				
Thallium					6.3			2
Zinc		*	[Hardness]		5000			5000
		[< 125	125—200	> 200				
	[chronic:							
	CWF	172	236	305				
	Lakes	103	147	187				
	GWWF	241	340	433				
	LWWF	1050	1483	1893				
	acute:							
	CWF	185	264	337				
	Lakes	112	161	205				
	GWWF	264	371	479				
	LWWF	1154	1623	2073]				

[CWF = Cold-water fishery
GWWF = General warm-water fishery
LWWF = Limited warm-water fishery]

***See Metals (Hardness Dependent)**

AQL = Protection of Aquatic Life

Pollutant (μg/L)	AQL	
Metals (Hardness Dependant)		
Cadmium (μg/L)	Acute:	$e^{(1.0166*\ln(\text{Hardness}) - 3.062490)} * (1.136672 - (\ln(\text{Hardness})*0.041838))$
	Chronic:	$e^{(0.7409*\ln(\text{Hardness}) - 4.719948)} * (1.101672 - (\ln(\text{Hardness})*0.041838))$
Chromium III (μg/L)	Acute:	$e^{(0.8190*\ln(\text{Hardness}) + 3.725666)} * 0.316$
	Chronic:	$e^{(0.8190*\ln(\text{Hardness}) + 0.684960)} * 0.860$
Copper (μg/L)	Acute:	$e^{(0.9422*\ln(\text{Hardness}) - 1.700300)} * 0.960$
	Chronic:	$e^{(0.8845*\ln(\text{Hardness}) - 2.044953)} * 0.960$
Lead (μg/L)	Acute:	$e^{(1.273*\ln(\text{Hardness}) - 1.460448)} * (1.46203 - (\ln(\text{Hardness})*0.145712))$
	Chronic:	$e^{(1.273*\ln(\text{Hardness}) - 4.704797)} * (1.46203 - (\ln(\text{Hardness})*0.145712))$
Nickel (μg/L)	Acute:	$e^{(0.8460*\ln(\text{Hardness}) + 2.255647)} * 0.998$
	Chronic:	$e^{(0.8460*\ln(\text{Hardness}) + 0.058978)} * 0.997$
Silver (μg/L)	Acute:	$e^{(1.72*\ln(\text{Hardness}) - 6.588144)} * 0.850$
Zinc (μg/L)	Acute:	$e^{(0.8473*\ln(\text{Hardness}) + 0.884211)} * 0.978$
	Chronic:	$e^{(0.8473*\ln(\text{Hardness}) + 0.785271)} * 0.986$

	Hardness								
	50–74	75–99	100–124	125–149	150–174	175–199	200–224	225–249	250+
Cadmium									
Acute:	2.4	3.6	4.8	5.9	7.1	8.2	9.4	10.5	11.6
Chronic:	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5
Chromium III									
Acute:	323	450	570	684	794	901	1005	1107	1207
Chronic:	42	59	74	89	103	117	131	144	157
Copper									
Acute:	7	10	13	17	20	23	26	29	32
Chronic:	4	6	7	9	10	12	13	15	16
Lead									
Acute:	30	47	65	82	100	118	136	154	172
Chronic:	1	2	3	3	4	5	5	6	7
Nickel									
Acute:	261	367	469	566	660	752	842	930	1017
Chronic:	29	41	52	63	73	84	94	103	113
Silver									
Acute:	1.0	2.0	3.2	4.7	6.5	8.4	10.6	13.0	15.6
Zinc									
Acute:	65	92	117	142	165	188	211	233	255
Chronic:	59	84	107	129	151	172	193	213	233

[I]/AQL	=	Protection of Aquatic Life
[II]/HHF	=	Human Health Protection—Fish Consumption
[III]/DWS	=	Drinking Water Supply
[IV]	=	<i>Irrigation</i>
[V]	=	<i>Livestock, Wildlife Watering</i>
[VI]	=	<i>Whole-Body-Contact Recreation</i>
[VII]/GRW	=	Groundwater

Pollutant (µg/L)	[I]/AQL	[II]/HHF	[III]/DWS	[IV]	V	VI]	[VII]/GRW
Organics							
Acrolein		780	320				320
Bis-2-chloroisopropyl ether		4360	1400				1400
2, chlorophenol		400	.1				.1
2,4-dichlorophenol	7	790	93				93
2,4-dinitrophenol		14,000	70				70
2,4-dimethylphenol		2300	540				540
2,4,5-trichlorophenol		9800	2600				2600
2,4,6-trichlorophenol		[7]/6.5	2				2
2-methyl-4,6-dinitrophenol		765	13				13
Ethylbenzene	320		700				700
Hexachlorocyclopentadiene	.5		50				50
Isophorone		2600	36				36
Nitrobenzene		1900	17				17
Phenol	100		100				300
Dichloropropene		1700	87				87
Para(1,4)-dichlorobenzene		2600	75				75
Other Dichlorobenzenes		2600	600				600
1,2,4-trichlorobenzene		940	70				70
1,2,4,5-tetrachlorobenzene		2.9	[38]/2.3				[38]/2.3
pentachlorobenzene		[85]/4.1	[74]/3.5				[74]/3.5
1,1,1-trichloroethane			200				200
1,1,2-trichloroethane		42	5				5
2,4-dinitrotoluene		9	.11				.11
1,2-diphenylhydrazine		.54	.04				.04
di (2-ethylhexyl) adipate			400				400
n-nitrosodiphenylamine		16	5				5
n-nitrosopyrrolidene		[93]/91.9					
2-chloronaphthalene	4300						
n-nitrosodi-n-propylamine		1.4					
Pollutant (µg/L)	[I]/AQL	[II]	[III]/DWS	[IV]	V	VI]	[VII]/GRW
Pesticides							
Demeton	.1						
Endosulfan							
chronic—	.056						
acute—	0.11						
Guthion	.01						
Malathion	.1						
Parathion	.04						
2,4-D			70				70
2,4,5-TP			50				50
Chlorpyrifos	.04						
Alachlor			2				2
Atrazine			3				3
Carbofuran			40				40
Dalapon			200				200
Dibromochloropropane			.2				.2
Dinoseb			7				7
Diquat			20				20
Endothall			100				100
Ethylene dibromide			.05				.05
Oxamyl (vydate)			200				200
Picloram			500				500
Simazine			4				4
Glyphosate			700				700

[I/AQL	=	Protection of Aquatic Life
[II/HHF	=	Human Health Protection—Fish Consumption
[III/DWS	=	Drinking Water Supply
[IV	=	<i>Irrigation]</i>
[V]	=	<i>Livestock, Wildlife Watering]</i>
[VI	=	<i>Whole-Body-Contact Recreation]</i>
[VII/GRW	=	Groundwater

Pollutant ($\mu\text{g/L}$)	[I/AQL	[II/HHF	[III/DWS	[IV	V	VI]	[VII/GRW
[Persistent,] Bioaccumulative,							
[Man-Made] Anthropogenic Toxics (+)							
PCBs		.000045					.000045
4-4' dichlorodiphenyldichloro-ethane (DDT) [and metabolites]		[.002/0.00059	[.002/0.00059				/002/0.00059
4-4' dichlorodiphenyldichloro-ethylene (DDE)		0.00059	0.00059				0.00059
4-4' dichlorodiphenyldichloro-ethane (DDD)		0.00084	0.00083				0.00083
Endrin		.0023	2				2
Endrin aldehyde		.0023	.75				.75
Aldrin		.000079	.00013				.00013
Dieldrin		.000076	.00014				.00014
Heptachlor	.0038	.0002	0.4				0.4
Heptachlor epoxide		.00011	0.2				0.2
Methoxychlor	.03		40				40
Mirex	.001						
Toxaphene		.000073	3				3
Lindane (gamma-BHC)		.062	.2				.2
Alpha,beta,delta-BHC		.0074	.0022				.0022
Chlordane		.00048	2				2
Benzidine		.00053	.00012				.00012
2,3,7,8-tetrachlorodibenzo-p-dioxin (ng/l)*		.000014	[.03/0.000013				/0.03/0.000013
(TCDD or dioxin)							
Pentachloropheno]**	3.2–pH 6.5	8	1				1
	5.3–pH 7.0						
	8.7–pH 7.5						
	14.0–pH 8.0						
	23.0–pH 8.5						

+ Many of these values are below current detection limits; analyses will be determined by the 17th edition of *Standard Methods* or the most current methods approved by the Environmental Protection Agency.

*Units for dioxin are nanograms/liter (ng/l); 1 $\mu\text{g/l}$ = 1000 ng/l.

**Toxic impurities may be present in technical-grade pentachlorophenol; monitoring and discharge control will assure that impurities are below toxic concentrations.

<i>[I]</i>	=	<i>Protection of Aquatic Life</i>
<i>[II]/HHF</i>	=	Human Health Protection—Fish Consumption
<i>[III]/DWS</i>	=	Drinking Water Supply
<i>[IV]</i>	=	<i>Irrigation</i>
<i>[V]</i>	=	<i>Livestock, Wildlife Watering]</i>
<i>[VI]</i>	=	<i>Whole-Body-Contact Recreation</i>
<i>[VII]/GRW</i>	=	Groundwater

Pollutant (µg/L)	<i>[I]</i>	<i>[II]/HHF</i>	<i>[III]/DWS</i>	<i>[IV]</i>	<i>V</i>	<i>VI]</i>	<i>[VII]/GRW</i>
<i>[Persistent, Manmade]</i>							
<i>Anthropogenic Carcinogens(+)</i> [µg/l]							
Acrylonitrile		.65	.058				.058
Hexachlorobenzene		.00074	1				1
Bis (2-chloroethyl) ether		1.4	.03				.03
Bis (chloromethyl) ether		<i>[.07]</i> 0.00078	.0001/6/3				.0001/6/3
Hexachloroethane		8.7	1.9				1.9
3,3'-dichlorobenzidine		0.08	.04				.04
Hexachlorobutadiene		50	.45				.45
n-nitrosodimethylamine		8	.0007				.0007

(+) Some of these values are below current detection limits; analyses will be determined by the 17th edition of *Standard Methods* or the most current methods approved by the Environmental Protection Agency.

Pollutant (µg/L)	<i>[I]</i>	<i>[II]/HHF</i>	<i>[III]/DWS</i>	<i>[IV]</i>	<i>V</i>	<i>VI]</i>	<i>[VII]/GRW</i>
<i>Volatile Organics</i>							
Chlorobenzene		21,000	100				100
Carbon Tetrachloride		5	5				5
Trihalomethanes			<i>[100/80]</i>				<i>[100/80]</i>
Bromoform		360	4.3				4.3
Chlorodibromomethane		34	0.41				0.41
Dichlorobromomethane		46	0.56				0.56
Chloroform		470	5.7				5.7
Methyl Bromide		4000	48				48
Methyl Chloride		470	5				5
Methylene Chloride		1600	<i>[5/4.7]</i>				<i>[5/4.7]</i>
<i>[Bromoform</i>		<i>365</i>					
<i>Chlorodibromomethane</i>		<i>35</i>					
<i>Dichlorobromomethane]</i>		<i>46]</i>					
Dichlorodifluoromethane		570,000					
Trichlorofluoromethane		860,000					
1,2-dichloroethane		99	5				5
1,1,2,2-tetrachloroethane		11	.17				.17
1,1-dichloroethylene		3.2	7				7
1,2-trans-dichloroethylene		140,000	100				100
1,2-cis-dichloroethylene			70				70
Trichloroethylene		80	5				5
Tetrachloroethylene		<i>[9/8.85]</i>	<i>[5/0.8]</i>				<i>[5/0.8]</i>
Benzene		71	5				5
Toluene		200,000	1000				1000
Xylenes (total)			10,000				10,000
Vinyl chloride		525	2				2
Styrene			100				100
1,2-dichloropropane		39	<i>[100/0.52]</i>				<i>[100/0.52]</i>

Pollutant (fibers/L)	<i>[I]</i>	<i>[II]</i>	<i>[III]/DWS</i>	<i>[IV]</i>	<i>V</i>	<i>VI]</i>	<i>[VII]/GRW</i>
Asbestos			7,000,000				

<i>[I]</i>	=	<i>Protection of Aquatic Life</i>
<i>[[III]]HHF</i>	=	Human Health Protection—Fish Consumption
<i>[[III]]DWS</i>	=	Drinking Water Supply
<i>[IV]</i>	=	<i>Irrigation</i>
<i>[V]</i>	=	<i>Livestock, Wildlife Watering</i>
<i>[VI]</i>	=	<i>Whole-Body-Contact Recreation</i>
<i>[VII]]GRW</i>	=	Groundwater

Pollutant (µg/L)	<i>[I]</i>	<i>[[III]]HHF</i>	<i>[[III]]DWS</i>	<i>[IV]</i>	<i>V</i>	<i>VI]</i>	<i>[VII]]GRW</i>
Polynuclear Aromatic Hydrocarbons							
Anthracene		110,000	9600				9600
Fluoranthene		370	300				300
Fluorene		14,000	1300				1300
Pyrene		11,000	960				960
Benzo(a)pyrene		.049	0.2				0.2
other polynuclear aromatic hydrocarbons*		.049	.0044				.0044
Acenaphthene		2700	1200				1200

*This concentration is allowed for each of the following PAHs: benzo(a)anthracene, 3,4-benzofluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene and benzo(k)fluoranthene. Higher values may be allowed if natural background concentrations exceed these values.

Pollutant (µg/L)	<i>[I]</i>	<i>[[III]]HHF</i>	<i>[[III]]DWS</i>	<i>[IV]</i>	<i>V</i>	<i>VI]</i>	<i>[VII]]GRW</i>
Phthalate Esters							
Bis(2-ethylhexyl) phthalate		5.9	6				6
Butylbenzyl phthalate		5200	3000				3000
Diethyl phthalate		120,000	23,000				23,000
Dimethyl phthalate		2,900,000	313,000				313,000
Di-n-butyl phthalate		12,000	2700				2700

Health Advisory Levels

Pollutant (µg/L)	<i>[I]</i>	<i>[[III]]</i>	<i>[[III]]DWS</i>	<i>[IV]</i>	<i>V</i>	<i>VI]</i>	<i>[VII]]GRW</i>
Ametryn			60				60
Baygon			3				3
Bentazon			20				20
Bis-2-chloroisopropyl ether			300				300
Bromacil			90				90
Bromochloromethane			90				90
Bromomethane			10				10
Butylate			350				350
Carbaryl			700				700
Carboxin			700				700
Chloramben			100				100
o-chlorotoluene			100				100
p-chlorotoluene			100				100
Chlorpyrifos			20				20
DCPA (dacthal)			4000				4000
Diazinon			0.6				0.6
Dicamba			200				200
Diisopropyl methylphosphonate			600				600
Dimethyl methylphosphonate			100				100
1,3-dinitrobenzene			1				1
Diphenamid			200				200
Diphenylamine			200				200
Disulfoton			0.3				0.3
1,4-dithiane			80				80
Diuron			10				10

<i>[I]</i>	=	<i>Protection of Aquatic Life</i>
<i>[II]</i>	=	<i>Human Health Protection—Fish Consumption</i>
<i>[III]/DWS</i>	=	Drinking Water Supply
<i>[IV]</i>	=	<i>Irrigation</i>
<i>[V]</i>	=	<i>Livestock, Wildlife Watering]</i>
<i>[VI]</i>	=	<i>Whole-Body-Contact Recreation</i>
<i>[VII]/GRW</i>	=	Groundwater

Health Advisory Levels (continued)

Pollutant (µg/L)	<i>[I]</i>	<i>[II]</i>	<i>[III]/DWS</i>	<i>[IV]</i>	<i>V</i>	<i>VI]</i>	<i>[VII]/GRW</i>
Fenamiphos			2				2
Fluometron			90				90
Fluorotrichloromethane			2000				2000
Fonofos			10				10
Hexazinone			200				200
Malathion			200				200
Maleic hydrazide			4000				4000
MCPA			10				10
Methyl parathion			2				2
Metolachlor			70				70
Metribuzin			100				100
Naphthalene			20				20
Nitroguanidine			700				700
p-nitrophenol			60				60
Paraquat			30				30
Pronamide			50				50
Propachlor			90				90
Propazine			10				10
Propham			100				100
2,4,5-T			70				70
Tebuthiuron			500				500
Terbacil			90				90
Terbufos			0.9				0.9
1,1,1,2-Tetrachloroethane			70				70
1,2,3-trichloropropane			40				40
Trifluralin			5				5
Trinitroglycerol			5				5
Trinitrotoluene			2				2

[Table B

Chronic Criteria for Total Ammonia: Cold-Water Fishery (mg/l)

Temp. °C	pH												
	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.5	0.9	0.6	0.4	0.2	0.2
6	2.3	2.3	2.3	2.3	2.3	2.3	2.0	1.4	0.9	0.6	0.4	0.2	0.2
8	2.3	2.3	2.3	2.3	2.3	2.3	2.0	1.4	0.9	0.6	0.4	0.2	0.2
10	2.2	2.2	2.2	2.2	2.2	2.3	1.9	1.4	0.9	0.6	0.4	0.2	0.2
12	2.2	2.2	2.2	2.2	2.2	2.2	1.9	1.3	0.9	0.6	0.4	0.2	0.2
14	2.2	2.2	2.2	2.2	2.2	2.2	1.9	1.3	0.9	0.6	0.4	0.2	0.2
16	2.8	2.8	2.8	2.8	2.8	2.8	2.4	1.7	1.1	0.7	0.5	0.3	0.2
18	2.4	2.4	2.4	2.4	2.4	2.5	2.1	1.5	1.0	0.6	0.4	0.3	0.2
20	2.1	2.1	2.1	2.1	2.1	2.1	1.8	1.3	0.8	0.6	0.4	0.2	0.2
22	1.8	1.8	1.8	1.8	1.8	1.8	1.6	1.1	0.7	0.5	0.3	0.2	0.2
24	1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.0	0.6	0.4	0.3	0.2	0.1
26	1.4	1.4	1.4	1.4	1.4	1.4	1.2	0.9	0.6	0.4	0.3	0.2	0.1
28	1.2	1.2	1.2	1.2	1.2	1.2	1.1	0.8	0.5	0.3	0.2	0.2	0.1
30	1.0	1.0	1.0	1.0	1.1	1.1	0.9	0.7	0.4	0.3	0.2	0.1	0.1

NOTE: Values in this table are total ammonia concentration (HN3). Typical analytical methods result in determinations of ammonia nitrogen and thus must be multiplied by 1.2 prior to comparison with values in this table.

Acute Criteria for Total Ammonia: Cold-Water Fishery (mg/l)

Temp. °C	pH												
	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
4	32.1	29.7	26.6	22.8	18.6	14.4	10.7	7.5	4.8	3.0	2.0	1.3	0.8
6	31.3	29.0	26.0	22.3	18.2	14.1	10.4	7.4	4.7	3.0	1.9	1.3	0.8
8	30.7	28.4	25.4	21.8	17.8	13.8	10.2	7.2	4.6	3.0	1.9	1.2	0.8
10	30.1	27.8	24.9	21.4	17.5	13.6	10.0	7.1	4.5	2.9	1.9	1.2	0.8
12	29.5	27.4	24.5	21.0	17.2	13.3	9.9	7.0	4.5	2.9	1.9	1.2	0.8
14	29.1	27.0	24.2	20.7	16.9	13.2	9.7	6.9	4.4	2.9	1.9	1.2	0.8
16	28.7	26.6	23.8	20.5	16.7	13.0	9.6	6.9	4.4	2.9	1.9	1.3	0.9
18	28.4	26.3	23.6	20.3	16.6	12.9	9.6	6.8	4.4	2.9	1.9	1.3	0.9
20	28.2	26.1	23.4	20.1	16.4	12.8	9.5	6.8	4.4	2.9	1.9	1.3	0.9
22	24.4	22.6	20.2	17.4	14.2	11.1	8.3	5.9	3.8	2.5	1.7	1.2	0.8
24	21.1	19.6	17.6	15.1	12.4	9.6	7.2	5.2	3.4	2.2	1.5	1.0	0.8
26	18.3	17.0	15.2	13.1	10.8	8.4	6.3	4.5	2.9	2.0	1.3	0.9	0.7
28	16.0	14.8	13.3	11.4	9.4	7.3	5.5	4.0	2.6	1.7	1.2	0.8	0.6
30	13.9	12.9	11.6	10.0	8.2	6.4	4.8	3.5	2.3	1.5	1.1	0.8	0.6

Chronic Criteria for Total Ammonia: Limited Warm-Water Fishery (mg/l)

Temp. °C	pH												
	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
4	3.9	3.9	3.9	3.9	3.9	3.9	3.4	2.4	1.5	1.0	0.6	0.4	0.3
6	3.8	3.8	3.8	3.8	3.8	3.9	3.3	2.3	1.5	0.9	0.6	0.4	0.3
8	3.8	3.8	3.8	3.8	3.8	3.8	3.2	2.3	1.5	0.9	0.6	0.4	0.3
10	3.7	3.7	3.7	3.7	3.7	3.7	3.2	2.3	1.4	0.9	0.6	0.4	0.3
12	3.6	3.6	3.6	3.6	3.6	3.6	3.1	2.2	1.4	0.9	0.6	0.4	0.3
14	3.6	3.6	3.6	3.6	3.6	3.6	3.1	2.2	1.4	0.9	0.6	0.4	0.3
16	3.5	3.5	3.5	3.5	3.5	3.6	3.0	2.2	1.4	0.9	0.6	0.4	0.3
18	3.5	3.5	3.5	3.5	3.5	3.5	3.0	2.2	1.4	0.9	0.6	0.4	0.3
20	3.4	3.4	3.5	3.5	3.5	3.5	3.0	2.1	1.4	0.9	0.6	0.4	0.3
22	3.0	3.0	3.0	3.0	3.0	3.0	2.6	1.9	1.2	0.8	0.5	0.4	0.3
24	2.6	2.6	2.6	2.6	2.6	2.6	2.3	1.6	1.1	0.7	0.5	0.3	0.2
26	2.2	2.2	2.3	2.3	2.3	2.3	2.0	1.4	0.9	0.6	0.4	0.3	0.2
28	2.0	2.0	2.0	2.0	2.0	2.0	1.7	1.3	0.8	0.5	0.4	0.2	0.2
30	1.7	1.7	1.7	1.7	1.7	1.8	1.5	1.1	0.7	0.5	0.3	0.2	0.2]

[Acute Criteria for Total Ammonia: Limited Warm-Water Fishery (mg/l)]

Temp. °C	pH												
	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
4	81.2	75.2	67.3	57.7	47.1	36.5	27.0	19.1	12.1	7.7	5.0	3.2	2.1
6	79.2	73.4	65.7	56.4	46.0	35.7	26.4	18.7	11.9	7.6	4.9	3.2	2.1
8	77.5	71.8	64.3	55.2	45.1	34.9	25.8	18.3	11.7	7.5	4.8	3.1	2.1
10	76.0	70.4	63.1	54.1	44.2	34.3	25.4	18.0	11.5	7.4	4.8	3.1	2.1
12	74.7	69.2	62.0	53.2	43.5	33.7	25.0	17.7	11.3	7.3	4.7	3.1	2.1
14	73.6	68.2	61.1	52.4	42.9	33.3	24.6	17.5	11.2	7.2	4.7	3.1	2.1
16	72.6	67.3	60.3	51.8	42.3	32.9	24.4	17.4	11.2	7.0	4.7	3.2	2.2
18	71.8	66.6	59.7	51.2	41.9	32.6	24.2	17.3	11.1	7.2	4.8	3.2	2.2
20	71.2	66.0	59.1	50.8	41.6	32.4	24.0	17.2	11.1	7.2	4.8	3.3	2.3
22	70.7	65.6	58.8	50.5	41.4	32.2	24.0	17.2	11.1	7.3	4.9	3.4	2.4
24	70.4	65.3	58.5	50.3	41.2	32.1	23.9	17.2	11.2	7.4	5.0	3.5	2.5
26	65.5	60.7	54.5	46.9	38.4	30.0	22.4	16.1	10.5	7.0	4.8	3.3	2.5
28	57.0	52.9	47.4	40.8	33.5	26.2	19.6	14.1	9.3	6.2	4.3	3.0	2.3
30	49.7	46.1	41.4	35.6	29.3	22.9	17.2	12.4	8.2	5.5	3.8	2.8	2.1

[Chronic Criteria for Total Ammonia: General Warm-Water Fishery (mg/l)]

Temp. °C	pH												
	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
4	2.5	2.5	2.5	2.5	2.5	2.5	2.1	1.5	0.9	0.6	0.4	0.3	0.2
6	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.5	0.9	0.6	0.4	0.2	0.2
8	2.3	2.3	2.3	2.3	2.3	2.4	2.0	1.4	0.9	0.6	0.4	0.2	0.2
10	2.3	2.3	2.3	2.3	2.3	2.3	2.0	1.4	0.9	0.6	0.4	0.2	0.2
12	2.3	2.3	2.3	2.3	2.3	2.3	2.0	1.4	0.9	0.6	0.4	0.2	0.2
14	2.2	2.2	2.2	2.2	2.2	2.2	2.0	1.4	0.9	0.6	0.4	0.2	0.2
16	2.2	2.2	2.2	2.2	2.2	2.2	1.9	1.4	0.9	0.6	0.4	0.2	0.2
18	2.2	2.2	2.2	2.2	2.2	2.2	1.9	1.3	0.9	0.6	0.4	0.3	0.2
20	2.1	2.2	2.2	2.2	2.2	2.2	1.9	1.3	0.9	0.6	0.4	0.3	0.2
22	1.9	1.9	1.9	1.9	1.9	1.9	1.6	1.2	0.8	0.5	0.3	0.2	0.2
24	1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.0	0.7	0.4	0.3	0.2	0.1
26	1.4	1.4	1.4	1.4	1.4	1.4	1.2	0.9	0.6	0.4	0.3	0.2	0.1
28	1.2	1.2	1.2	1.2	1.2	1.2	1.1	0.8	0.5	0.3	0.2	0.2	0.1
30	1.1	1.1	1.1	1.1	1.1	1.1	0.9	0.7	0.5	0.3	0.2	0.2	0.1

[Acute Criteria for Total Ammonia: General Warm-Water Fishery (mg/l)]

Temp. °C	pH												
	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
4	50.6	46.9	42.0	36.0	29.4	22.8	16.8	11.9	7.6	4.8	3.1	2.0	1.3
6	49.4	45.8	41.0	35.2	28.7	22.3	16.4	11.6	7.4	4.7	3.0	2.0	1.3
8	48.3	44.8	40.1	34.4	28.1	21.8	16.1	11.4	7.3	4.7	3.0	2.0	1.3
10	47.4	44.0	39.3	33.7	27.6	21.4	15.8	11.2	7.2	4.6	3.0	2.0	1.3
12	46.6	43.2	38.7	33.2	27.1	26.0	15.6	11.1	7.1	4.6	3.0	2.0	1.3
14	45.9	42.5	38.1	32.7	26.7	20.8	15.4	10.9	7.0	4.5	3.0	2.0	1.3
16	45.3	42.0	37.6	32.3	26.4	20.5	15.2	10.8	7.0	4.5	3.0	2.0	1.4
18	44.8	41.5	37.2	32.0	26.1	20.3	15.1	10.8	7.0	4.5	3.0	2.0	1.4
20	44.4	41.2	36.9	31.7	25.9	20.2	15.0	10.7	6.9	4.5	3.0	2.0	1.4
22	44.1	40.9	36.6	31.5	25.8	20.1	14.9	10.7	6.9	4.6	3.0	2.1	1.5
24	43.9	40.7	36.5	31.4	25.7	20.0	14.9	10.7	7.0	4.6	3.1	2.2	1.6
26	40.8	37.9	34.0	29.0	24.0	18.7	14.0	10.0	6.6	4.4	3.0	2.1	1.5
28	35.5	33.0	29.6	25.5	20.9	16.3	12.2	8.8	5.8	3.9	2.7	1.9	1.4
30	31.0	28.7	25.8	22.2	18.3	14.3	10.7	7.8	5.1	3.4	2.4	1.7	1.3

Table B1. Acute Criteria for Total Ammonia Nitrogen (mg N/L)

pH	Cold-Water Fisheries ₍₁₎	Cool & Warm-Water Fisheries ₍₂₎
6.5	32.6	48.8
6.6	31.3	46.8
6.7	29.8	44.6
6.8	28.1	42.0
6.9	26.2	39.1
7.0	24.1	36.1
7.1	22.0	32.8
7.2	19.7	29.5
7.3	17.5	26.2
7.4	15.4	23.0
7.5	13.3	19.9
7.6	11.4	17.0
7.7	9.6	14.4
7.8	8.1	12.1
7.9	6.7	10.1
8.0	5.6	8.4
8.1	4.6	6.9
8.2	3.8	5.7
8.3	3.1	4.7
8.4	2.5	3.8
8.5	2.1	3.2
8.6	1.7	2.6
8.7	1.4	2.2
8.8	1.2	1.8
8.9	1.0	1.5
9.0	0.8	1.3

Table B2. Chronic Criteria for Total Ammonia Nitrogen (mg N/L): Early Life Stages absent₍₃₎₍₄₎

pH	Temperature (°C)																
	0-7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30
6.5	10.8	10.1	9.5	8.9	8.3	7.8	7.3	6.8	6.4	6.0	5.3	4.6	4.1	3.6	3.1	2.8	2.4
6.6	10.7	9.9	9.3	8.7	8.2	7.7	7.2	6.7	6.3	5.9	5.2	4.6	4.0	3.5	3.1	2.7	2.4
6.7	10.5	9.8	9.2	8.6	8.0	7.5	7.1	6.6	6.2	5.8	5.1	4.5	3.9	3.5	3.0	2.7	2.3
6.8	10.2	9.5	8.9	8.4	7.9	7.4	6.9	6.5	6.1	5.7	5.0	4.4	3.8	3.4	3.0	2.6	2.3
6.9	9.9	9.3	8.7	8.1	7.6	7.2	6.7	6.3	5.9	5.5	4.8	4.3	3.7	3.3	2.9	2.5	2.2
7.0	9.6	9.0	8.4	7.9	7.4	6.9	6.5	6.1	5.7	5.3	4.7	4.1	3.6	3.2	2.8	2.4	2.1
7.1	9.2	8.6	8.0	7.5	7.1	6.6	6.2	5.8	5.4	5.1	4.5	3.9	3.5	3.0	2.7	2.3	2.0
7.2	8.7	8.2	7.6	7.2	6.7	6.3	5.9	5.5	5.2	4.9	4.3	3.7	3.3	2.9	2.5	2.2	1.9
7.3	8.2	7.7	7.2	6.7	6.3	5.9	5.6	5.2	4.9	4.6	4.0	3.5	3.1	2.7	2.4	2.1	1.8
7.4	7.6	7.2	6.7	6.3	5.9	5.5	5.2	4.8	4.5	4.3	3.7	3.3	2.9	2.5	2.2	1.9	1.7
7.5	7.0	6.6	6.2	5.8	5.4	5.1	4.8	4.5	4.2	3.9	3.4	3.0	2.6	2.3	2.0	1.8	1.6
7.6	6.4	6.0	5.6	5.3	5.0	4.6	4.3	4.1	3.8	3.6	3.1	2.7	2.4	2.1	1.9	1.6	1.4
7.7	5.8	5.4	5.1	4.7	4.0	4.2	3.9	3.7	3.4	3.2	2.8	2.5	2.2	1.9	1.7	1.5	1.3
7.8	5.1	4.8	4.5	4.2	4.4	3.7	3.5	3.2	3.0	2.8	2.5	2.2	1.9	1.7	1.5	1.3	1.1
7.9	4.5	4.2	3.9	3.7	3.5	3.2	3.1	2.8	2.7	2.5	2.2	1.9	1.7	1.5	1.3	1.1	1.0
8.0	3.9	3.7	3.4	3.2	3.0	2.8	2.6	2.5	2.3	2.2	1.9	1.7	1.5	1.3	1.1	1.0	0.8
8.1	3.4	3.1	2.9	2.8	2.6	2.4	2.3	2.1	2.0	1.9	1.6	1.4	1.2	1.1	1.0	0.8	0.7
8.2	2.9	2.7	2.5	2.4	2.2	2.1	1.9	1.8	1.7	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.6
8.3	2.4	2.3	2.1	2.0	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.9	0.8	0.7	0.6	0.5
8.4	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.7	0.6	0.5	0.4
8.5	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4
8.6	1.4	1.4	1.3	1.2	1.1	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3
8.7	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2
8.8	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2
8.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2
9.0	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1

Table B3. Chronic Criteria for Total Ammonia Nitrogen (mg N/L): Early Life Stages present₍₅₎

pH	Temperature (°C)									
	0	14	16	18	20	22	24	26	28	30
6.5	6.6	6.6	6.0	5.3	4.6	4.1	3.6	3.1	2.8	2.4
6.6	6.5	6.5	5.9	5.2	4.6	4.0	3.5	3.1	2.7	2.4
6.7	6.4	6.4	5.8	5.1	4.5	3.9	3.5	3.0	2.7	2.3
6.8	6.2	6.2	5.7	5.0	4.4	3.8	3.4	3.0	2.6	2.3
6.9	6.1	6.1	5.5	4.8	4.3	3.7	3.3	2.9	2.5	2.2
7.0	5.9	5.9	5.3	4.7	4.1	3.6	3.2	2.8	2.4	2.1
7.1	5.6	5.6	5.1	4.5	3.9	3.5	3.0	2.7	2.3	2.0
7.2	5.3	5.3	4.9	4.3	3.7	3.3	2.9	2.5	2.2	1.9
7.3	5.0	5.0	4.6	4.0	3.5	3.1	2.7	2.4	2.1	1.8
7.4	4.7	4.7	4.3	3.7	3.3	2.9	2.5	2.2	1.9	1.7
7.5	4.3	4.3	3.9	3.4	3.0	2.6	2.3	2.0	1.8	1.6
7.6	3.9	3.9	3.6	3.1	2.7	2.4	2.1	1.9	1.6	1.4
7.7	3.5	3.5	3.2	2.8	2.5	2.2	1.9	1.7	1.5	1.3
7.8	3.1	3.1	2.8	2.5	2.2	1.9	1.7	1.5	1.3	1.1
7.9	2.8	2.8	2.5	2.2	1.9	1.7	1.5	1.3	1.1	1.0
8.0	2.4	2.4	2.2	1.9	1.7	1.5	1.3	1.1	1.0	0.8
8.1	2.1	2.1	1.9	1.6	1.4	1.2	1.1	1.0	0.8	0.7
8.2	1.7	1.7	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.6
8.3	1.5	1.5	1.3	1.2	1.0	0.9	0.8	0.7	0.6	0.5
8.4	1.2	1.2	1.1	1.0	0.9	0.7	0.7	0.6	0.5	0.4
8.5	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4
8.6	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3
8.7	0.7	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2
8.8	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2
8.9	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2
9.0	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1

(1) *Salmonids present*: $CMC = [0.275 / (1 + 10^{7.204 - pH})] + [39.0 / (1 + 10^{pH - 7.204})]$

(2) *Salmonids absent*: $CMC = [0.411 / (1 + 10^{7.204 - pH})] + [58.4 / (1 + 10^{pH - 7.204})]$

(3) Without sufficient and reliable data, it is assumed that Early Life Stages are present and must be protected at all times of the year.

(4) Early Life Stages absent

$$CCC = [0.0577 / (1 + 10^{7.688 - pH})] + [2.487 / (1 + 10^{pH - 7.688})] * 1.45 * 10^{0.028 * (25 - \text{MAX}(T, 7))}$$

(5) Early Life Stages present

$$CCC = [0.0577 / (1 + 10^{7.688 - pH})] + [2.487 / (1 + 10^{pH - 7.688})] * \text{MIN}(2.85, 1.45 * 10^{0.028 * (25 - T)})$$

Table C
[Streams] Waters Designated for Cold-Water [Sport] Fishery

Water Body	Miles/Acres	From	To	County(ies)
Barren Fork	2	Mouth	20,31N,4W	Shannon
Bee Creek	1	Mouth	Hwy. 65	Taney
Bender Creek	0.7	Mouth	10,31N,9W	Texas
Bennett Springs Creek	2	Mouth	Bennett Springs	Laclede
Blue Springs Creek	4	Mouth	2,39N,3W	Crawford
Bryant Creek	1	3,23N,12W	34,24N,12W	Ozark
Bryant Creek	6	19,27N,14W	8,27N,15W	Douglas
Buffalo Creek	10	State line	5,23N,33W	McDonald
Bull Creek	5	Mouth	34,24N,21W	Taney
Bull Shoals Lake	9000 ac.	21/34,20N,15W	— — —	Ozark
Capps Creek	4	Mouth	17,25N,28W	Newton-Barry
Cedar Creek	1	21,26N,32W	28,26N,32W	Newton
Center Creek	3	24,27N,29W	17,27N,28W	Lawrence
Chesapeake Creek	3	Mouth	29,28N,25W	Lawrence
Crane Creek	15	8,25N,23W	24,26N,25W	Stone-Lawrence
Current River	19	24,31N,6W	Montauk Spring	Shannon-Dent
Dogwood Creek	2.3	Mouth	State line	Stone
Dry Creek	4	Mouth	14,37N,3W	Crawford
Eleven Point River	33.5	State line	36,25N,4W	Oregon
Flat Creek	3	9,23N,27W	21,23N,27W	Barry
Goose Creek	4	Mouth	10,28N,25W	Lawrence
Greer Spring Branch	1	Mouth	36,25N,4W	Oregon
Hickory Creek	4.5	13,25N,31W	28,25N,31W	Newton
Hobbs Hollow	2.7	Mouth	State line	Stone
Horse Creek	2.2	Mouth	23,35N,8W	Dent
Hunter Creek	5	22,26N,15W	20,26N,14W	Douglas
Hurricane Creek	1.5	Mouth	30,24N,12W	Ozark
Hurricane Creek	3.2	Mouth	22,25N,3W	Oregon
Indian Creek	1.4	Mouth	17,21N,23W	Stone
Indian Creek	20	Mouth	36,39N,01W	Franklin-Washington
Johnson Creek	3	Mouth	36,29N,26W	Lawrence
Joyce Creek	1	17,24N,28W	16,24N,28W	Barry
L. Flat Creek	3.5	Mouth	25,25N,27W	Barry
L. Piney Creek	15	25,37N,9W	4,35N,8W	Phelps
L. Piney Creek	<i>/19/4</i>	<i>/25,37N,9W/04,35N,08W</i>	<i>/31,37N,08W/21,35N,08W</i>	Phelps
L. Sinking Creek	2.2	Mouth	33,32N,4W	Dent
Lyman Creek	1	Mouth	30,40N,3W	Crawford
Maramec Spring Branch	1	Mouth	1,37N,6W	Phelps
Meramec River	10	22,38N,5W	Hwy. 8	Crawford
Mill Creek	1.5	Mouth	9,36N,18W	Dallas
Mill Creek	5	29,37N,9W	Yelton Spring	Phelps
Mill Creek	1.5	Mouth	11,40N,8W	Maries
N. Fork White River	<i>/13.5/23</i>	<i>/3/09,22N,12W</i>	<i>/28,24N,11W/34,25N,11W</i>	Ozark
Niangua River	6	11,35N,18W	Bennett Sp. Creek	Dallas
Roaring River	7	Mouth	34,22N,27W	Barry
Roark Creek	3	Mouth	36,23N,22W	Taney
Roubidoux Creek	4	Mouth	25,36N,12W	Pulaski
S. Indian Creek	<i>/3.4/9</i>	<i>/30,24N,30W/24,24N,31W</i>	1,23N,30W	Newton-McDonald
Schafer Spring Creek	2	Mouth	20,32N,6W	Dent
Shoal Creek	1	Mouth	18,41N,17W	Morgan
Shoal Creek	7	09,25N,29W	16,22N,21W	Newton
Spring Branch	1	Mouth	18,41N,17W	Morgan
Spring Creek	6.5	Mouth	31,35N,9W	Phelps
Spring Creek	2.5	Mouth	4,41N,2W	Franklin
Spring Creek	5.5	Mouth	12,26N,24W	Stone
Spring Creek	<i>/3/6</i>	Mouth	<i>/5/06,24N,13W</i>	Douglas-Ozark
Spring Creek	2.5	Mouth	26,25N,11W	Douglas
Spring Creek	5	Mouth	14,23N,11W	Ozark
Spring Creek	4	Mouth	30,25N,4W	Oregon
Spring River	11.2	13,27N,27W	20,26N,26W	Lawrence
Stone Mill Spring Branch	0.2	Mouth	Spring	Pulaski
Taneycomo Lake	1730 ac.	8,23N,20W	— — —	Taney
Terrell Creek	2	Mouth	2,27N,23W	Christian
Tory Creek	2.5	Mouth	27,26N,22W	Stone-Christian
Turkey Creek	2	Mouth	16,22N,21W	Taney
Turkey Creek	1	Mouth	17,23N,15W	Ozark
Turnback Creek	14	35,30N,26W	24,28N,25W	Dade-Lawrence
Warm Fork Spring River	3	6,22N,5W	30,23N,5W	Oregon
Whittenburg Creek	2.5	Mouth	Hwy. 8	Crawford
Williams Creek	1	Mouth	28,28N,27W	Lawrence
Woods Fork Bull Creek	1	15,25N,21W	15,25N,21W	Christian
Yadkin Creek	3	Mouth	9,37N,4W	Crawford
Yankee Branch	1	Mouth	10,36N,4W	Crawford

Table D
Outstanding National Resource Waters

<i>/Stream/Water Body</i>	Location	<i>County(ies)</i>
Current River	Headwaters to Northern Ripley Co. Line Sec. 22,32N,07W to Sec. 15,25N,01E	Dent to Ripley
Jacks Fork River	Headwaters to Mouth Sec. 29,28N,07W to Sec. 9/15,29N,03W	Texas to Shannon
Eleven Point River	Headwaters to Hwy. 142 Sec. 32,25N,05W to Sec. 21,22N,02W	Oregon

Table E
Outstanding State Resource Waters

Water Body	Miles/Acres	Location	County(ies)
Baker Branch	4 mi.	Taberville Prairie	St. Clair
Bass Creek	1 mi.	In Three Creek Conservation Area	Boone
Big Buffalo Creek	1.5 mi.	Big Buffalo Creek Conservation Area	Benton-Morgan
Big Creek	5.3 mi.	Sam A. Baker State Park	Wayne
Big Sugar Creek	7 mi.	Cuivre River State Park	Lincoln
Big Lake Marsh	150 ac.	Big Lake State Park	Holt
Blue Springs Creek	4 mi.	Blue Spring Creek Conservation Area	Crawford
<i>[(1.5 mi. adjacent to owned lands)]</i>			
<i>/Boone/ Bonne</i> Femme Creek	2 mi.	Three Creeks Conservation Area	Boone
Brush Creek	0.7 mi.	Bonanza Conservation Area	Caldwell
Bryant Creek	1.5 mi.	Bryant Creek Natural Area in Rippee Conservation Area	Ozark/Douglas
Bull Creek	8 mi.	Mark Twain National Forest Sec. 24,25N,21W to Sec. 22,26N,20W	Christian
Cathedral Cave Branch	5 mi.	Onondaga Cave State Park	Crawford
Chariton River	9.8 mi.	Rebels Cove Conservation Area	Putnam-Schuyler
Chloe Lowry Marsh	40 ac.	Chloe Lowry Marsh Conservation Area	Mercer
Coakley Hollow	1.5 mi.	Lake of the Ozarks State Park	Camden
Coonville Creek	2 mi.	St. Francois State Park	St. Francois
Courtois Creek	12 mi.	Mouth to Hwy. 8	Crawford
Crabapple Creek	1.0 mi.	Bonanza Conservation Area	Caldwell
Devils Ice Box Cave Branch	1.5 mi.	Rock Bridge State Park	Boone
East Fork Black River	3 mi.	Johnson's Shut-Ins State Park	Reynolds
First Nicholson Creek (East Drywood Creek)	2 mi.	Prairie State Park	Barton
Gan's Creek	3 mi.	Rock Bridge State Park	Boone
Huzzah Creek	6 mi.	Mouth to Hwy. 8	Crawford
Indian Creek	17.5 mi.	Mark Twain National Forest	Douglas-Howell
Ketchum Hollow	1.5 mi.	Roaring River State Park	Barry
Little Piney Creek	25 mi.	Mouth to 21,35N,08W	Phelps
Little Black River	3 mi.	Mud Puppy Natural History Area S22,T24N,R3E to S25,T24N,R3E	Ripley
Log Creek	0.4 mi.	Bonanza Conservation Area	Caldwell
Meramec River	8 mi.	Adjacent to Meramac State Park	Crawford/Franklin
Meramec River	3 mi.	Adjacent to Onondaga and Huzzah State Forest	Crawford
Mill Creek	5 mi.	Mark Twain National Forest	Phelps
N. Fork White River	5.5 mi.	Mark Twain National Forest	Ozark
Noblett Creek	5 mi.	Above Noblett Lake, Mark Twain National Forest	Douglas-Howell
Onondaga Cave Branch	0.6 mi.	Onondaga Cave State Park	Crawford
Pickle Creek	3 mi.	Hawn State Park	Ste. Genevieve
S. Prong L. Black River	2 mi.	In Little Black Conservation Area	Ripley
Shoal Creek	0.5 mi.	Bonanza Conservation Area	Caldwell
Spring Creek	17 mi.	Mark Twain National Forest	Douglas
Spring Creek	6.5 mi.	Mark Twain National Forest	Phelps
Taum Sauk Creek	5.5 mi.	Johnson's Shut-Ins State Park Addition S23,T33N,R2E to S5,T33N,R3E	Reynolds-Iron
Turkey Creek	4.6 mi.	In Three Creeks Conservation Area	Boone
Van Meter Marsh	80 ac.	Van Meter State Park	Saline
Whetstone Creek	5.1 mi.	Whetsone Creek Conservation Area	Callaway

Table G—Lake Classifications and Use Designations

NOTE: Fishing, swimming and livestock watering may not be allowed in some lakes by the local management authorities. The use designations refer only to the protection of water quality for those potential uses.

WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	[BTG]	
									SCR	DWS IND
Adrian Lake	L1	26	03,41N,31W	Bates	X	X		B		X
Agate Lake	L3	167	13,60N,06W	Lewis	X	X		/X/A	X	
Aggravation Lake	L3	40	31,42N,02E	Franklin	X	X		B	X	
Amarugia Highlands Lake	L3	55	10/11,43N,32W	Cass	X	X		B	X	
Anderson Lake	L3	20	36,28N,11E	Stoddard	X	X		B		
Annette Lake	L3	65	01,44N,33W	Cass	X	X		B	X	
Anthones Mill Lake	L3	110	19,39N,01W	Washington	X	X		B	X	
Antimi Lake	L3	3	NE NE,03,48N,12W	Boone	X	X		B		
Apollo Lake	L3	22	21,36N,05E	St. Francois	X	X		B	X	
Appleton City Lake	/L3/L1	36	12,39N,29W	Bates	X	X		B		X
Archie Lake	L1	3.5	SE SE,28,43N,31W	Cass	X	X		B		X
Armstrong Lake	L1	12	28,52N,16W	Howard	X	X		B		X
Arrow Rock Lake	L3	5	36,50N,19W	Saline	X	X		B	X	
Arrowhead, Lake	L3	150	18,54N,30W	Clinton	X	X		/X/A	X	
Arrowhead, Lake	L3	25	05,41N,02E	Franklin	X	X		/X/A	X	
Athens State Park Lake	L3	8	30,67N,07W	Clark	X	X		/X/A	X	
Atkinson Lake	L3	355	NW SE06,37N,28W	St. Clair	X	X		/X/A	X	
Atlanta Lake	/L3/L1	14	SE SW29,59N,14W	Macon	X	X		B		X
Austin Community Lake	L3	22	30,29N,11W	Texas	X	X		/X/A	X	
Baja Lake Assoc. Lake	L3	30	05,39N,01E	Washington	X	X		B	X	
Baring Country Club Lake	L1	81	SE SE26,63N,12W	Knox	X	X		/X/A	X	X
Bass Lake	L3	40	13,47N,08W	Callaway	X	X		/X/A	X	
Bean Lake	L3	420	12,13,14,54N,37W	Platte	X	X		B	X	
Bear Creek Watershed Lake	L3	28	31,64N,09W	Clark	X	X		B	X	
Beaver Lake	L3	11	22,25N,04E	Butler	X	X		/X/A		
Bee Tree Lake	L3	9	03,42N,06E	St. Louis	X	X		B	X	
Belcher Branch Lake	L3	55	08/17,55N,34W	Buchanan	X	X		B	X	
Belle City Lake	L3	3	20,41N,07W	Maries	X	X		B		
Ben Branch Lake	L3	[44]45	15/14,44N,08W	Osage	X	X		B	X	
Bethany Lake #1	L1	18	02,63N,28W	Harrison	X	X		B		X
Bethany Lake #2	L1	50	27,64N,28W	Harrison	X	X		B		X
Bethany Reservoir	L3	78	SE27,64N,28W	Harrison	X	X		/X/A	X	
Bevier Lake	L3	20	S SE,14,57N,15W	Macon	X	X		B		
Big Buffalo Wildlife Area L	L3	5	12,41N,20W	Benton	X	X		B		
Big Lake	L3	625	18&19,30,61N,39W	Holt	X	X		/X/ A	X	
Big Oak Tree S.P. Lake	L3	22	14,23N,16E	Mississippi	X	X		B		
Bilby Ranch Lake	L3	110	13/24,64N,38W	Nodaway	X	X		B	X	
Binder Lake	L3	127	SW SE36,45N,13W	Cole	X	X		B	X	
Birds Blue Hole	L3	8	29,27N,18E	Mississippi	X	X		B		
Blind Pony Lake	L3	195	NW SE18,49N,22W	Saline	X	X		B	X	
Bloodland Lake (Ft. Wood)	L3	45	04,34N,11W	Pulaski	X	X		B	X	
Blue Lake	L3	10	09,37N,08W	Phelps	X	X		B	X	
Blue Mountain Camp	L1	14	NW SE,09,33N,05E	Madison	X	X		B		X
Blue Springs Lake	L3	720	03/04,48N,31W	Jackson	X	X		/X/A	X	
Bluestem Lake	L3	15	22,47N,31W	Jackson	X	X		B	X	
Bocomo Lake	L3	140	NW NE10,49N,13W	Boone	X	X		B	X	
Bodarc Lake	L3	15	23,47N,31W	Jackson	X	X		B	X	
Bonne Ava Lake	L3	6	25,38N,04E	St. Francois	X	X		B		
Bonne Terre City Lake	L3	10	14,37N,04E	St. Francois	X	X		B		
Bowling Green Lake	L1	41	W NW29,53N,02W	Pike	X	X		B	X	X

LWW—Livestock & Wildlife Watering
AQL—Protection of Warm Water Aquatic Life and
Human Health/Fish Consumption
CDF—Cold Water Fishery

WBC—Whole Body Contact Recreation
[BTG]—Boating and Canoeing/SCR—Secondary Contact Recreation
DWS—Drinking Water Supply
IND—Industrial

WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	[BTG]	
									SCR	DWS IND
Bowling Green Lake (Old)	L1	7	NE NE30,53N,02W	Pike	X	X		B		X
Bray Lake	L3	162	NE NW35,37N,08W	Phelps	X	X		B	X	
Breckenridge Lake	L1	80	NE SW03,57N,26W	Caldwell	X	X		B	X	X
Briarwood, Lake	L3	103	SW NE33,40N,04E	Jefferson	X	X		/X/A	X	
Brookfield Lake	L1	120	SE SE33,58N,19W	Linn	X	X		B		X
Browning Lake	L3	120	10,11,12,57N,36W	Buchanan	X	X		B	X	
Bucklin Lake	L1	17	11,57N,18W	Linn	X	X		B		X
Buffalo Bill Lake	L3	45	28,57N,31W	Dekalb	X	X		B	X	
Bull Shoals Lake	L2	9000	/21,22N,15N,16W/ 21/34,20N,15W	Ozark	X	X	X	/X/A	X	
Burlington Lake	L3	40	27,57N,30W	Clinton	X	X		B		
Busch W.A. #35	L3	51	NE NE30,46N,03E	St. Charles	X	X		B		
Busch W.A.—Kraut Run Lake	L3	182	NW NE23,46N,02E	St. Charles	X	X		B		
Bushwacker Lake	L3	159	27,34N,32W	Vernon	X	X		B	X	
Butler Lake	L1	67	NW NE14,40N,32W	Bates	X	X		B		X
Butterfly Lake	L3	85	NW NE34,36N,07E	Ste. Genevieve	X	X		B		
Callaway Lake	L3	160	/1,45N,1E,/ 06,45N,02E	St. Charles	X	X		/X/A	X	
Cameron Lake #1	L1	25	SW SW10,57N,30W	Dekalb	X	X		B	X	X
Cameron Lake #2	L1	35	NW NW10,57N,30W	Dekalb	X	X		B	X	X
Cameron Lake #3	L1	96	SE NE09,57N,30W	Dekalb	X	X		B	X	X
Cameron Lake #4 (Grindstone Reserv <i>i</i> /oir)	L1	180	05/08,57N,30W	Dekalb	X	X		B		X
Camp Irondale Lake	L3	10	13,36N,01E	Washington	X	X		B	X	
Camp Solidarity Lake	L3	12	24,43N,02E	Franklin	X	X		B	X	
Carroll Reservoir	L3	65	SE NW07,52N,23W	Carroll	X	X		B	X	
Catclaw Lake	L3	42	14,47N,31W	Jackson	X	X		B	X	
Cedar Hill Lakes	L3	36	35,42N,03E	Jefferson	X	X		/X/A	X	
Cedar Lake	L3	45	22,37N,05E	St. Francois	X	X		/X/A	X	
Cedar Lake	L3	16	35,48N,13W	Boone	X	X		/X/A	X	
Champetra, Lake	L3	60	NW13,45N,12W	Boone	X	X		/X/A	X	
Charity Lake	L3	17	32,66N,41W-1,65N,41W	Atchison	X	X		B	X	
Clarence Lake #1	L1	20	15,57N,12W	Shelby	X	X		B	X	X
Clarence Lake #2	L1	31	15,57N,12W	Shelby	X	X		B	X	X
Clearwater Lake	L2	1650	NW NE06,28N,03E	Wayne-Reynolds	X	X		/X/A	X	
Cleveland Reservoir	L1	8	29,45N,33W	Cass	X	X		B		X
Clever Dell Lake	L3	12	13,45N,22W	Pettis	X	X		B	X	
Cole County Park Lake	L3	7	17,44N,12W	Cole	X	X		B		
Cole Lake	L3	38	SE10,38N,04E	Jefferson	X	X		/X/A	X	
Conner O. Fewell Lake	L3	10	32/29,43N,25W	Henry	X	X		B	X	
Contrary, Lake	L3	193	26,27,35,57N,36W	Buchanan	X	X		/X/A	X	
Cooley Lake	L3	300	SE02,51N,30W	Clay	X	X		B		
Cool Valley Lake	L3	35	09,40N,02E	Franklin	X	X		B	X	
Coot Lake	L3	22	22,47N,31W	Jackson	X	X		B	X	
Corner Blue Hole Lake (34)	L3	9	25,25N,17E	Mississippi	X	X		B		
Cosmo-Bethel Lake	L3	6	NW,36,48N,13W	Boone	X	X		B		
Cottontail Lake	L3	27	14,47N,31W	Jackson	X	X		B	X	
Council Bluff Lake	L3	440	23,35N,01E	Iron	X	X		/X/A	X	
Crane Lake	L3	50	W33,32N,04E	Iron	X	X		B	X	
Creighton Lake	L1	14	NW SE,14,43N,29W	Cass	X	X		B		X
Crescent Lake	L3	10	02,42N,01W	Franklin	X	X		B	X	
Creve Couer Lake	L3	300	20,46N,05E	St. Louis	X	X		B	X	
Crooked Creek Lake	L3	3	07,36N,04W	Crawford	X	X		B		
Crowder St. Park Lake	L3	18	12,61N,25W	Grundy	X	X		/X/A		
Crystal Lake	L3	122	NW SW32,53N,29W	Ray	X	X		/X/A	X	X
Cut-off Lake	L3	80	01,12,57N,36W	Buchanan	X	X		B		
Cut-off Lake	L3	674	26,27,34,35,53N,19W	Chariton	X	X		B		
Dearborn Reservoir	L1	7	31,55N,34W	Buchanan	X	X		B	X	X

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DWS—Drinking Water Supply
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WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	[BTG]	
									SCR	DWS IND
Deer Ridge Community Lake	L3	48	18,62N,08W	Lewis	X	X		B	X	
Dexter City Lake	L3	11	21,25N,10E	Stoddard	X	X		B		
Downing Lake	L1	18	SW NE17,66N,13W	Schuyler	X	X		B		X
Drexel Lake #1	L1	28	32,43N,33W	Bates	X	X		B		X
Drexel Lake #2	L1	51	SW NE06,42N,33W	Bates	X	X		B		X
Duck Creek	L3	1773	SW SW31,28N,09E	Wayne	X	X		B	X	
E A Pape Lake (Concordia)	L1	245	20,48N,24W	Lafayette	X	X		B	X	X
Eagleville Lake	L1	40	33,66N,27W	Harrison	X	X		/X/A	X	X
Edina Lake	L1	11	07,62N,11W	Knox	X	X		B	X	X
Edina Reservoir	L1	51	12,62N,11W	Knox	X	X		B	X	X
Ella Ewing Community Lake	L3	15	21,64N,10W	Scotland	X	X		/X/A		
Elsie Lake	L3	20	30,37N,02E	Washington	X	X		/X/A	X	
Ethel Lake	/L3/L1	23	NE NW36,59N,17W	Macon	X	X		B		X
Farmington City Lake	L3	8	SUR 2969,35N,05E	St. Francois	X	X		B		
Fawn Lake	L3	50	13,43N,02W	Franklin	X	X		B	X	
Fayette Lake #1	L3	10	NE NW15,50N,16W	Howard	X	X		B		
Fayette Lake #2	L3	60	NW NW04,50N,16W	Howard	X	X		B		
Fayette Lake #3 (Rogers)	L1	185	NW NW10,50N,16W	Howard	X	X		B		X
Fellows Lake	L1	820	NW NE22,30N,21W	Greene	X	X		/X/A	X	X
Finger Lakes	L3	50	SW30,50N,12W	Boone	X	X		/X/A		
Flight Lake	L3	100	26,36N,32W	Vernon	X	X		B		
Fond du Lac, Lake	L3	33	SUR 3011,43N,05E	Jefferson	X	X		A	X	
Forest Lake	L1	573	SE SW14,62N,16W	Adair	X	X		/X/A		X
Forest, Lake	L3	90	36,38N,07E	Ste. Genevieve	X	X		B		
Fort Westside Lake	L3	27	02,39N,04W	Crawford	X	X		/X/A	X	
Fountain Grove Lakes	L3	—	35,57N,22W	Linn	X	X		B		
Fourche Lake	L3	49	22,23N,01W	Ripley	X	X		/X/A	X	
Fox Valley Lake	L3	108	27,66N,08W	Clark	X	X		B	X	
Foxboro Lake	L3	25	14,42N,04W	Franklin	X	X		B	X	
Fredricktown City Lake	L1	158	SE SE06,33N,07E	Madison	X	X		B		X
Freeman Lake	L1	13	SW SW18,44N,32W	Cass	X	X		B		X
Frontier Lake	L3	62	NW NW35,30N,04E	Wayne	X	X		B	X	
Garden City Lake	L1	22	31,44N,29W	Cass	X	X		B		X
Garden City New Lake	L1	46	NW,18,43N,29W	Cass	X	X		B		X
Gerald City Lake	L3	5	12,42N,04W	Franklin	X	X		B		
Girardeau, Lake	L3	162	SW SW09,30N,11E	Cape Girardeau	X	X		B	X	
Glaus Lake	L3	30	17,27N,11E	Stoddard	X	X		B		
Glover Spring Lake	L3	80	13,47N,09W	Callaway	X	X		B		
Golden Eagle Lake	L3	141	SE SW16,48N,04W	Montgomery	X	X		B		
Goose Creek Lake	L3	62	NW NW26,38N,06E	St. Francois	X	X		/X/A	X	
Gopher Lake	L3	42	23,47N,31W	Jackson	X	X		B	X	
Gower Lake	/L3/L1	14	03,55N,33W	Clinton	X	X		B		X
Green City Lake	L1	57	SE NE16,63N,18W	Sullivan	X	X		B		X
Green City Lake (Old)	L1	60	SE18,63N,18W	Sullivan	X	X		/X/A		X
HS Truman Lake	L2	55,600	07,40N,23W	Benton	X	X		/X/A	X	X
Hamilton Lake	L1	80	SW SW15,57N,28W	Caldwell	X	X		B	X	X
Harmony Mission Lake	L3	96	15,38N,32W	Bates	X	X		B	X	
Harrison County Lake	L1	280	17/30,65N,28W	Harrison	X	X		B		X
Harrisonville City Lake	L1	20	34,45N,31W	Cass	X	X		B	X	X
Harrisonville, Lake	L1	385	SW SW26,46N,31W	Cass	X	X		B	X	X
Hazel Creek Lake	L1	151	SW SW31,64N,15W	Adair	X	X		B		X
Hazel Hill Lake	L3	71	28,47N,26W	Johnson	X	X		B	X	
Hematite (Bismarck) Lake	L3	210	SW NE19,35N,04E	St. Francois	X	X		B	X	
Henke Lake	L3	70	SE SE20,46N,09W	Callaway	X	X		B		
Henry Sever Lake	L3	158	NE NE14,60N,10W	Knox	X	X		/X/A	X	
Hermit Hollow Lake	L3	10	29,44N,02E	Franklin	X	X		B	X	

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WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	[BTG]	
									SCR	DWS IND
Herring Lake	L3	50	NW SW17,46N,09W	Callaway	X	X		B		
Higbee Lake	L1	15	SE SW9,52N,14W	Randolph	X	X		B		X
Higginsville N. Lake	/L3/L1	40	NW SW09,49N,25W	Lafayette	X	X		B	X	X
Higginsville S. Lake	L1	150/223	SW NE09,49N,25W	Lafayette	X	X		B	X	X
HiPoint Lake	L3	3	24,39N,01E	Washington	X	X		B		
Holden Lake	L3	11	07,45N,27W	Johnson	X	X		B		
Holden Lake	L3	11	12,45N,28W	Johnson	X	X		B	X	
Holden Lake (New)	L1	380	29,46N,28W	Johnson	X	X		B	X	X
Holiday Acres Lake	L3	250	SE SW17,55N,14W	Randolph	X	X		B		
Holiday Shores Lake	L3	47	12,36N,03E	Washington	X	X		/X/A	X	
Horseshoe Lake	L3	80	15,56N,36W	Buchanan	X	X		B		
Hough Park Lake	L3	7	19,44N,11W	Cole	X	X		B		
Houston Lake	L3	22	NW 33,51N,33W	Platte	X	X		/X/A	X	
Howell Mill Lake	L3	35	17,36N,01E	Washington	X	X		/X/A	X	
Hunnewell Lake	L3	228	NW SW25,57N,09W	Shelby	X	X		B	X	
Hurdland Sever Lake	L3	16	36,62N,13W	Knox	X	X		/X/A	X	
Indian Creek Lake	L3	192	15,27,59N,25W	Livingston	X	X		B	X	
Indian Hills Lake	L3	326	22,15,23,39N,05W	Crawford	X	X		/X/A	X	
Innsbrook Lake	L3	51	NW SE06,46N,01W	Warren	X	X		B		
Iron Mtn. Lake	L3	114	SE SW32,35N,04E	St. Francois	X	X		B	X	
Ironton Shepard Mountain Lake	L1	21	01,33N,03E	Iron	X	X		B	X	X
Izaak Walton Lake	L3	7	32,36N,31W	Vernon	X	X		B	X	
Jackass Bend	L3	200	32,28,21-19,51N,29W	Ray-Jackson	X	X		B	X	X
Jackrabbit Lake	L3	31	15,47N,31W	Jackson	X	X		B	X	
Jacomo Lake	L3	970	NE NW11,48N,31W	Jackson	X	X		/X/A	X	
Jamesport City Reservoir	L1	24	22,60N,26W	Daviess	X	X		B		X
Jamesport Community Lake	L1	30	NE20,60N,26W	Daviess	X	X		/X/A	X	X
Jasper Lake	L3	35	13,60N,06W	Lewis	X	X		/X/A	X	
Junge's Lake	L3	40	10,41N,21W	Benton	X	X		/X/A	X	
Kahrs Boger Lake	L3	5	15,44N,20W	Pettis	X	X		B	X	
KC Angler's Club Lake	L3	25	SE18,46N,30W	Cass	X	X		B	X	
KC Southern Lake	L3	28	05,43N,33W	Cass	X	X		B	X	
Kellogg City Lake	L3	25	34,29N,31W	Jasper	X	X		/X/A	X	
Killarney, Lake	L3	105	NW NW01,33N,04E	Iron	X	X		/X/A	X	
King City Lake	L1	12	SW NE28,61N,32W	Gentry	X	X		B		X
King City Lake	L1	34	28,61N,32W	Gentry	X	X		B		X
King City Lake (South)	L1	32	SW SW/,/34, 61N,32W	Gentry	X	X		B		X
King Lake	L3	231	12-13,60N,31W	Dekalb	X	X		/X/A	X	X
Kiwanis Lake	L3	4	SW23,51N,9W	Audrain	X	X		B		
Knob Noster St. Park Lakes	L3	24	29/30,46N,24W	Johnson	X	X		B		
L. Prairie Comm. Lake	L3	100	SE SE21,38N,7W	Phelps	X	X		B	X	
La Plata Lake (New)	L1	81	NW 14,60N,14W	Macon	X	X		B		X
La Plata Lake (Old)	L1	19	09,60N,14W	Macon	X	X		B		X
Labelle Lake #1	L1	17	16,61N,09W	Lewis	X	X		B	X	X
Labelle Lake #2	L1	112	NW NE16,61N,09W	Lewis	X	X		B	X	X
Lacawana, Lake	L3	10	13,38N,05E	St. Francois	X	X		B	X	
Lahweena, Lake	L3	60	24,47N,08W	Callaway	X	X		/X/A	X	
[Lake Fond du Lac,	L3	33	SUR 3011,43N,5E	Jefferson	X	X		X	X/	
[Lake Lorraine	L3	70	1,12,41N,4E	Jefferson	X	X		X	X/	
[Lake of the Woods,	L3	3	NE,2,48N,12W	Boone	X	X/				
Lakeview Lake	L3	25	SW35,51N,09W	Audrain	X	X		B		
Lakewood Lake	L3	107	NE NE07,48N,31W	Jackson	X	X		/X/A	X	
Lamar City Lake	L1	180	SW NW32,32N,30W	Barton	X	X		B		X
Lamine C.A. Lakes	L3	17	2-11-22-27,46N,19W	Cooper	X	X		B	X	
Lancaster City Lake (New)	L1	56	23,66N,15W	Schuyler	X	X		B		X

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WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	[BTG]	
									SCR	DWS IND
Lancaster Lake (Old)	L1	10	SW NE14,66N,15W	Schuyler	X	X		B		X
Lawson City Lake	L1	25	31,54N,29W	Ray	X	X		/X/A	X	X
Leisure Lake	L3	50	NE SE05,61N,25W	Grundy	X	X		/X/A		
Leisure Lake	L3	60	33,48N,08W	Callaway	X	X		/X/A	X	
Lewis County #1 Lake (Ewing)	L1	43	6,60N,07W	Lewis	X	X		B	X	X
Lewis Lake	L3	10	10,26N,11E	Stoddard	X	X		B		
Lewistown Lake	L1	29	NW SW08,61N,08W	Lewis	X	X		B	X	X
Liberty Park Lake	L3	2	05,45N,21W	Pettis	X	X		B		
Limpp Lake	L3	30	29,61N,32W	Gentry	X	X		B	X	
Lincoln Lake-Cuivre River S.P.	L3	88	SW SE08,49N,01E	Lincoln	X	X		/X/A	X	
Linneus Lake	L1	15	NE SW36,59N,21W	Linn	X	X		B	X	X
Lions Lake	L3	10	16,44N,01W	Franklin	X	X		B	X	
Lions Lake	L3	5	26,46N,26W	Johnson	X	X		B	X	
Little Compton Lake	L3	40	29/32,55N, 21W	Carroll	X	X		B	X	
Little Dixie Lake	L3	205	SW SE26,48N,11W	Callaway	X	X		B	X	
Loggers Lake	L3	25	10,15,31N,03W	Shannon	X	X		/X/A	X	
Lone Jack Lake	L3	35	14,47N,30W	Jackson	X	X		B	X	
Lone Tree Lake	L3	22	15,46N,6W	Montgomery	X	X		B	X	
Long Branch Lake	L2	2430	NW18,57N,14W	Macon	X	X		/X/A	X	X
Long Lake	L3	10	03,25N,12E	Stoddard	X	X		B		
Longview Lake	L2	930	/20/04,47N,32W	Jackson	X	X		/X/A	X	
Lorraine, Lake	L3	70	01,12,41N,04E	Jefferson	X	X		A	X	
Lost Valley Lake	L3	50	SE NE17,43N,04W	Gasconade	X	X		/X/A	X	
Lotawana, Lake	L3	600	SE SE29,48N,30W	Jackson	X	X		/X/A	X	
Lower Taum Sauk Lake	L3	200	33,33N,02E	Reynolds	X	X		B	X	
Lucky Clover Lake	L3	35	20,38N,04W	Crawford	X	X		/X/A	X	
Luna Lake	L3	17	SE 34,45N,31W	Cass	X	X		B	X	
Mac Lake (Ziske)	L3	30	17,34N, /07W/05W	Dent	X	X		B	X	
Macon Lake	L3	200	SE NW17,57N,14W	Macon	X	X		B		X
Malta Bend Comm. Lake	L3	/5/40	25,51N,23W	Saline	X	X		B	X	
Manito Lake	L3	77	08,09,44N,17W	Moniteau	X	X		B	X	
Maple Leaf Lake	L3	140	04,48N,26W	Lafayette	X	X		B	X	
Marais Temps Clair	L3	500	19,48N,06E	St. Charles	X	X		B		
Marceline City Lake (New)	L1	200	SW SE14,56N,19W	Chariton	X	X		B		X
Marceline Reservoir	L1	81	NW SW 28,57N,18W	Linn	X	X		B		X
Marie, Lake	L3	60	NE NW 36,66N,24W	Mercer	X	X		/X/A		
Mark Twain Lake	L2	18,600	26,55N,07W	Ralls	X	X		/X/A	X	X
Marshall Habilitation										
Center Lake	L3	12	11,50N,21W	Saline	X	X		B	X	
Martin Lakes	L3	30	11,26N,11E	Stoddard	X	X		B		
Maysville Lake	L1	12	NW NE03,58N,31W	Dekalb	X	X		B	X	X
Maysville Lake	L1	27	SE SE33,59N,31W	Dekalb	X	X		B	X	X
Maysville Lake #3	L1	53	NE04,58N,13W	Dekalb	X	X		B		X
McCormick Lake	L3	11	08,09,25N,04W	Oregon	X	X		/X/A	X	
McDaniel Lake	L1	300	NE SE26,30N,22W	Greene	X	X		B		X
McGinness, Lake	L3	50	NW20,55N,30W	Clinton	X	X		B		
McKay Park Lake	L3	6	13,44N,12W	Cole	X	X		B		
Melody Lake	L3	35	15,42N,03W	Franklin	X	X		/X/A	X	
Memphis Lake #1	L1	39	NE NE14,65N,12W	Scotland	X	X		B		X
Memphis Lake #2	L1	250	15,65N,12W	Scotland	X	X		B		X
Mercer Lake	L1	21	NE SW30,66N,23W	Mercer	X	X		B		X
Middle Fork Water Comp.	L1	170	NW SW06,63N,31W	Gentry	X	X		B	X	X
Milan Lake Elmwood	L1	235	NE NE35,63N,20W	Sullivan	X	X		B		X
Milan Lake (New)	L1	15	SE SE,02,62N,20W	Sullivan	X	X		B		X
Milan Lake (Old)	L1	13	SE SE02,62N,20W	Sullivan	X	X		B		X
Mineral Lake	L3	20	01,42N,03W	Franklin	X	X		B	X	
Mingo Lakes	L3	1045	30,27N,08E	Stoddard	X	X		B		

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									SCR	DWS IND
Moberly Park Lake	/L3/L1	35	SE NE03,53N,14W	Randolph	X	X		B		X
Moberly Rothwell Lake	L3	25	03,53N,14W	Randolph	X	X		B		
Monroe City Lake	L1	94	SW,NE,34,56N,07W	Ralls	X	X	/X/A	X	X	
Monroe City Lake A	/L3/L1	17	NW NW13,56N,08W	Monroe	X	X		B		X
Monroe City Lake B	L1	55	30,56N,07W	Monroe	X	X		B	X	X
Montonese Lake	L3	45	27,43N,04E	Jefferson	X	X	/X/A	X		
Montrose Lake	L3	1568	NE NW33,41N,27W	Henry	X	X		B		X
Mozingo Lake	L1	1000	19,65N,34W	Nodaway	X	X		B		X
Mud Lake	L3	100	16,18,20,56N,36W	Buchanan	X	X		B		
Nehai Tonkayea Lake	L3	149	NW NE11,55N,18W	Chariton	X	X	/X/A			
Nell Lake	L3	31	15,47N,31W	Jackson	X	X		B	X	
New Cambria Lake	/L3/L1	7	SW NE07,57N,16W	Macon	X	X		B		X
Niangua Lake	L3	360	35,37N,18W	Camden	X	X	/X/A	X		
Nims Lake	L3	253	SW SW24,34N,06E	Madison	X	X	/X/A			
Noblett Lake	L3	26	25,26N,11W	Douglas	X	X	/X/A			
Nodaway Lake	L3	73	SW NE20,65N,35W	Nodaway	X	X		B	X	
Norfork Lake	L2	1000	21N,12W	Ozark	X	X	/X/A	X		
North Lake	L3	51	NW NE28,45N,31W	Cass	X	X		B	X	
North Sever Lake	L3	20	20,63N,13W	Knox	X	X		B	X	
Northwoods, Lake	L3	120	SE NE33,43N,05W	Gasconade	X	X	/X/A			
O'Brian Lake	L3	50	NW NW19,47N,01E	St. Charles	X	X		B		
Oaks, Lake of the	L3	53	SE SW07,63N,06W	Clark	X	X	/X/A	X		
Odessa Lake	L1	90	NW NE15,48N,28W	Lafayette	X	X		B	X	X
Odessa Lake (Old)	/L3/L1	19	NW NW14,48N,28W	Lafayette	X	X		B		X
Old Plattsburg Lake	L1	20	13,55N,32W	Clinton	X	X		B		X
Opossum Hollow Lake	L3	70	SW NE29,39N,03W	Crawford	X	X	/X/A	X		
Oscie Ora Acres	L3	50	SE NW10,28N,33W	Jasper	X	X		B		
Otter Slough	L3	250	17,24N,09E	Stoddard	X	X		B		
Ozarks, Lake of the	L2	59,520	SE SE19,40N,15W	Camden	X	X	/X/A	X		
Paho, Lake	L3	273	NE SE25,65N,25W	Mercer	X	X		B		
Painted Rock Lake	L3	4	11,42N,11W	Osage	X	X		B		
Palmer Lake	L3	93	22,36N,01E	Washington	X	X	/X/A	X		
Panther Creek C-2 Lake	L3	20	32,65N,27W	Harrison	X	X		B		
Parker Lake #1	L3	20	NE SW32,35N,09E	Perry	X	X	/X/A			
Parker Lake #2	L3	80	NE SW32,35N,09E	Perry	X	X	//X/A			
Parole Lake	L3	35	07,36N,01E	Washington	X	X	/X/A	X		
Peabody Wildlife Area Lake	L3	36	04/09,38N,32W	Bates	X	X		B	X	
Peaceful Valley Lake	L3	170	NE NE25,42N,06W	Gasconade	X	X	/X/A			
Peculiar Lake	/L3/L1	25	SE SW22,45N,32W	Cass	X	X		B		X
Penn's Pond Lake	L3	12	06,34N,11W	Pulaski	X	X		B	X	
Perry County Community Lake	L3	103	SW NE22,35N,10E	Perry	X	X		B		
Perry Lake #1	/L3/L1	18	NW NW34,54N,07W	Ralls	X	X		B		X
Perry Lake #2	/L3/L1	7	NW34,54N,07W	Ralls	X	X		B		X
Perry C.A. Lakes	L3	4	02,47N,24W	Johnson	X	X		B	X	
Pershing St. Park Lake	L3	12	11,57N,21W	Linn	X	X	/X/A			
Pike Lake	L3	20	02,59N,25W	Livingston	X	X	/X/A	X		
Pinewoods Lake	L3	30	07,26N,03E	Carter	X	X		B	X	
Pinnacle Lake	L3	130	SE NE24,47N,05W	Montgomery	X	X	/X/A			
Plattsburg 6 Mi. Lane Lk.	L3	57	SW SE11,55N,32W	Clinton	X	X		B		X
Pleasant Hill Lake	L1	115	SW SE01,46N,31W	Cass	X	X		B	X	X
Plover Lake	L3	15	15,47N,31W	Jackson	X	X		B	X	
Poague Wildlife Area Lake	L3	77	19,42N,26W	Henry	X	X		B	X	
Pomme de Terre Lake	L2	7820	SW NE02,36N,22W	Hickory	X	X	/X/A			
Pony Express Lake	L3	240	NE35,58N,31W	Dekalb	X	X	/X/A	X		
Port Hudson Lake	L3	55	16,43N,03W	Franklin	X	X		B	X	

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									SCR	DWS IND
Port Perry Lake	L3	200	NE SE08,34N,09E	Perry	X	X		B		
Potosi Lake Village	L3	40	27,37N,03E	Washington	X	X		/X/A	X	
Prairie Lee Lake	L3	150	NE NW27,48N,31W	Jackson	X	X		/X/A	X	
Prairie Home C.A. Lakes	L3	25	25,46N,15W	Cooper/ Moniteau	X	X		B		X
Primrose Lake	L3	100	23,38,04E	St. Francois	X	X		B	X	
Proctor Park Lake	L3	6	34,45N,15W	Moniteau	X	X		B	X	
Purko Lake	L3	25	SW SE07,34N,10E	Perry	X	X		B		
Radio Springs Lake	L3	8	08,35N,31W	Vernon	X	X		B	X	
Railroad Lake	L3	20	/SW30,SE25,51N 09W/,8W/	Audrain	X	X		B		
Raintree Lake	L3	300	06,46N,31W	Cass	X	X		/X/A	X	
Raintree Lake	L3	126	30,41N,04E	Jefferson	X	X		/X/A	X	
Ray County Community Lake	L3	25	13,52N,28W	Ray	X	X		/X/A	X	
Rice Lake	L3	40	09,27N,11E	Stoddard	X	X		B		
Ridgeway (Rockhouse) Lake	L1	67	SW SE36,65N,27W	Harrison	X	X		/X/A	X	X
Rinquelin Trail Community Lake	L3	30	NW29,39N,11W	Maries	X	X		B	X	
Ripley Co. Lake	L3	20	10,23N,01E	Ripley	X	X		/X/A	X	
Riss Lake	L3	134	SW SW25,51N,33W	Platte	X	X		B	X	
Roach Lake	L3	2	/25,57N,24W&/ 30,57N,23W	Livingston	X	X		/X/A	X	
Roby Lake	L3	[10/21	/3,32N,11W/ 34/35,33N,11W	Texas	X	X		/X/A	X	
Rocky Fork Lake	L3	53	NW SE31,50N,12W	Boone	X	X		B		
Rocky Hollow Lake	L3	20	SE33,53N,30W	Clay	X	X		B	X	
Salisbury City Lake (Pine Ridge Lake)	L3	25	15,53N,17W	Chariton	X	X		B	X	
Savannah City Reservoir	L1	17	07,59N,35W	Andrew	X	X		/X/A	X	X
Sayersbrook Lake	L3	70	NE SE28,38N,01E	Washington	X	X		B		
Schell-Osage W.A.—Levee 3	L3	461	SE NE06,37N,28W	St. Clair	X	X		/X/A	X	
Scioto Lake	L3	3	29,38N,06W	Phelps	X	X		B		
Schuman Park Lake	L3	5	02,37N,08W	Phelps	X	X		B		
Schuyler Co. PWSO #1 Lake	L1	29	SE SE04,64N,15W	Schuyler	X	X		B		X
Scrivner Lake	L3	8	18,43N,13W	Cole	X	X		B		
Sears Community Lake	L3	19	18,63N,19W	Sullivan	X	X		/X/A	X	
Seetal Lake	L3	45	SE NW01,45N,05W	Gasconade	X	X		B		
Sequoia Park Lake	L3	3	09,28N,21W	Greene	X	X		B		
Serene, Lake	L3	59	NW NE03,42N,02E	Franklin	X	X		/X/A	X	
Settles Ford C.A. Lakes	L3	110	09-10,42N,29W	Bates	X	X		B	X	
Seven Springs Lake	L3	35	23-24,36N,06W	Phelps	X	X		/X/A	X	
Shawnee Lake (Turner)	L3	17	17,34N,17W/05W	Dent	X	X		B	X	
Shelbina Lake	L1	45	NE SW20,57N,10W	Shelby	X	X		B	X	X
Shelbyville Lake	/L3/L1	32	SW SE19,58N,10W	Shelby	X	X		B	X	X
Sherwood, Lake	L3	120	SW SE11,45N,01W	Warren	X	X		/X/A		
Silver Lake	L3	59	SW SW16,46N,32W	Cass	X	X		B	X	
Silver Lake—Levee 3	L3	2464	06,55N,20W	Chariton	X	X		B		
Sims Valley Community Lake	L3	38	17,20,27N,08W	Howell	X	X		/X/A	X	
Smithville City Lake	L1	8	26,53N,33W	Clay	X	X		B		X
Smithville Lake	L2	7190	E SW13,53N,33W	Clay	X	X		/X/A	X	X
Snow Hollow Lake	L3	38	26/27,34N,03E	Iron	X	X		B	X	
South Pool—Levee 3	L3	1151	35,56N,21W	Chariton	X	X		B		
Spencer Lake	L3	8	NW19,66N,14W	Schuyler	X	X		B		
Spring Fork Lake	L1	178	NE SW21,44N,21W	Pettis	X	X		B	X	X
Spring Lake	L3	100	NW SW20,61N,16W	Adair	X	X		/X/A		
Springfield, Lake	L3	360	19,28N,21W	Greene	X	X		B	X	X

LWW—Livestock & Wildlife Watering
AQL—Protection of Warm Water Aquatic Life and
Human Health/Fish Consumption
CDF—Cold Water Fishery

WBC—Whole Body Contact Recreation
[BTG]—Boating and Canoeing/SCR—Secondary Contact Recreation
DWS—Drinking Water Supply
IND—Industrial

WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	[BTG]	
									SCR	DWS IND
Squaw Creek—Main Pool	L3	615	36,61N,39W	Holt	X	X		B		
St. Clair #1 Lake	L3	54	SW SE02,41N,01W	Franklin	X	X		/X/A	X	
St. Joe Park Lakes	L3	70	20,21,36N,05E	St. Francois	X	X		/X/A	X	
St. Louis, Lake	L3	525	NE SW26,47N,02E	St. Charles	X	X		/X/A		
Ste. Louise, Lake	L3	87	SW SW27,47N,02E	St. Charles	X	X		/X/A		
Sterling Price Community										
Lake	L3	35	17,53N,17W	Chariton	X	X		/X/A	X	
Stockton Lake	L2	23,680	NE NE15,34N,26W	Cedar	X	X		/X/A		X
Stokes Lake #1 (Arrowhead Lakes)	L3	60	SW SE18,23N,08W	Howell	X	X	X	/X/A		
Stokes Lake #2 (Arrowhead Lakes)	L3	80	18,23N,08W	Howell	X	X	X	B	X	
Strobel Lake	L3	50	01,27N,09E	Stoddard	X	X		B		
Sugar Creek Lake	L1	346	NE SW16,54N,14W	Randolph	X	X		B		X
Sugar Lake	L3	317	27,28,33,55N,37W	Buchanan	X	X		/X/A	X	
Sullivan City Lake	L3	5	17,40N,02W	Crawford	X	X		B		
Summerset Lake	L3	75	NE SW15,39N,04E	Jefferson	X	X		/X/A	X	
Sunfish Lake (Spanish L Pk)	L3	34	47N,07E	St. Louis	X	X		B	X	
Sunnen Lake	L3	198	SW SE04,37N,01E	Washington	X	X		/X/A		
Sunrise Lakes	L3	46	36,39N,04E	Jefferson	X	X		/X/A	X	
Sunset Lake	L3	60	NW SE33,39N,07E	Ste. Genevieve	X	X		B		
Sunshine Lake	L3	500	19,29,32,51N,27W	Ray	X	X		/X/A	X	X
Swan Lake—Levee 5	L3	1425	10,55N,21W	Chariton	X	X		B		
Swiss Lake Development Lake	L3	40	21-28,44N,05W	Gasconade	X	X		B	X	
Table Rock Lake	L2	43,100	SW NW22,22N,22W	Stone	X	X		/X/A	X	
Taneycomo, Lake	L2	1730	SW NE08,23N,20W	Taney	X	X	X	/X/A	X	X
Tapawingo, Lake	L3	76	NE NE34,49N,31W	Jackson	X	X		/X/A	X	
Tarsney Lake	L3	17	SE SE22,48N,30W	Jackson	X	X		/X/A	X	
Tea Lake	L3	25	08,41N,04W	Gasconade	X	X		B	X	
Teal Lake	L3	76	NE SW36,51N,09W	Audrain	X	X		B	X	
Tebo Freshwater Lake	L3	300	SW SW25,43N,25W	Henry	X	X		B		
Ten Mile Pond	L3	70	07,04,03,24N,16E	Mississippi	X	X		B		
Terre Du Lac Lakes	L3	190	18,19,37N,04E	St. Francois	X	X		/X/A	X	
Thomas Hill Reservoir	L2	4400	NE SE24,55N,16W	Randolph	X	X		/X/A		X X
Thunderbird, Lake	L3	45	06,41N,01E	Franklin	X	X		/X/A	X	
Timberline Lake	L3	13	32,37N,01W	Washington	X	X		/X/A	X	
Timberline Lakes	L3	119	23,24,38N,04E	St. Francois	X	X		/X/A	X	
Timberridge, Lake	L3	50	20,43N,06W	Gasconade	X	X		/X/A	X	
Tishomingo, Lake	L3	115	NE SE05,41N,04E	Jefferson	X	X		/X/A	X	
Tobacco Hills, Lake	L3	17	NW,11,53N,35W	Platte	X	X		B	X	
Tom Sawyer Lake (Mk. Twain SP)	L3	5	09,54N,08W	Monroe	X	X		/X/A		
Torino Lake	L3	10	20,42N,02E	Franklin	X	X		B	X	
Trenton Lower Lake	/L3/L1	103	NE SE15,61N,24W	Grundy	X	X		B		X
Trenton Upper Lake	/L3/L1	68	NE SE15,61N,24W	Grundy	X	X		B		X
Twin Borrow Pits	L3	18	13,19N,13E	Pemiscot	X	X		B		
Twin Lake	L3	70	NW NW31,66N,23W	Mercer	X	X		B		
Twin Lake	L3	18	SW SW22,48N,13W	Boone	X	X		B	X	
Tywappity Community Lake	L3	55	SW SE08,29N,13E	Scott	X	X		/X/A		
Union City Lake	L3	5	27,43N,01W	Franklin	X	X		B		
Unionville Lake (Thunderhead, Lake)	L1	1015	NE NE15,66N,19W	Putnam	X	X		/X/A	X	X
Unionville (New) Lake	L3	70	27,66N,19W	Putnam	X	X		B		
Unionville (Old) Lake	L1	15	34,66N,19W	Putnam	X	X		/X/A	X	X
Unity Village Lake #1	L1	15	25,48N,32W	Jackson	X	X		B	X	X

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WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	[BTG]	
									SCR	DWS IND
Unity Village Lake #2	L1	23	24,48N,32W	Jackson	X	X		B	X	X
Upper Big Lake	L3	110	25,27N,16E	Mississippi	X	X		B		
Valle Lake	L3	100	31,39N,05E	Jefferson	X	X		/X/A	X	
Van Meter St. Park Lake	L3	8	24,52N,22W	Saline	X	X		/X/A	X	
Vandalia Community Lake	L3	44	SE35,52N,06W	Audrain	X	X		B		
Vandalia Lake	L1	37	NE NE12,53N,05W	Pike	X	X		B	X	X
Viking, Lake	L1	550	09,59N,28W	Daviess	X	X		/X/A	X	X
Wahoo Lake	L3	25	14,38N,04E	St. Francois	X	X		B	X	
Wakonda Lake	L3	78	NW NE13,60N,06W	Lewis	X	X		/X/A	X	
Wallace SP Lake	L3	6	NE,24,56N,30W	Clinton	X	X		/X/A	X	
Walt Disney Lake	L3	18	05,57N,18W	Linn	X	X		/X/A		
Wanda Lee, Lake	L3	220	02,37N,07E	Ste. Genevieve	X	X		/X/A		
Wapappello, Lake	L2	8200	SE NE3,26N,3E	Wayne	X	X		/X/A	X	
Watkins Mill Lake	L3	126	NW 22,53N,30W	Clay	X	X		/X/A	X	
Waukomis Lake	L3	82	NE NW17,51N,33W	Platte	X	X		/X/A	X	
Wauwanoka, Lake	L3	86	SE NW01,40N,04E	Jefferson	X	X		/X/A	X	
Weatherby Lake	L3	194	SW SE15,51N,34W	Platte	X	X		/X/A	X	
Wellsville Lake	L1	10	33,50N,06W	Montgomery	X	X		B		X
Wellsville Quarry	L1	1.3	NE SE,04,49N,06W	Montgomery	X	X		B		X
Whetstone Creek W.A. Lake	L3	26	08,48N,07W	Callaway	X	X		B	X	
Whispering Valley Lakes	L3	30	02,43N,03W	Franklin	X	X		/X/A	X	
White Area Lake										
(Lake Whiteside)	L3	28	SW SUR 1686,51N,01W	Lincoln	X	X		B	X	
Wildwood Lake	L3	17	NE09,48N,32W	Jackson	X	X		B		
Willow Lake	L3	29	27-34,34N,32W	Vernon	X	X		B	X	
Willowood Lake	L3	100	35,48N,05E	St. Charles	X	X		B		
Windsor City Lake	L3	20	06,43N,23W	Pettis	X	X		B		
Winnebago, Lake	L3	350	NE NW09,46N,31W	Cass	X	X		/X/A	X	
Wolf Bayou	L3	35	04,19N,13E	Pemiscot	X	X		B		
Woods, Lake of the	L3	3	NE,02,48N,12W	Boone	X	X		B		
Worth County Lake	L3	20	29,32,65N,32W	Worth	X	X		B	X	
Wyaconda Lake	L1	8	NW NW33,65N,09W	Clark	X	X		B	X	X

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
AB Cr.	C	3.0	Mouth	32,37N,18W	Dallas	Camden		x	x			B			
Ackerman Ditch	C	13.0	Mouth	24,24N,6E	Butler		x	x	x			B			
Agee Cr.	C	4.5	Mouth	24,61N,34W	Andrew			x	x			B			
Alder Br.	C	3.5	2,34N,26W	5,34N,25W	Cedar			x	x			B			
Alder Cr.	C	10.0	Mouth	21,35N,28W	Cedar			x	x			B			
Allen Br.	P	1.5	Mouth	22,37N,1E	Washington			x	x			B			
Allen Br.	C	2.6	Mouth	05,35N,05E	St. Francois			x	x			B			
Allen Br.	C	1.5	22,37N,1E	34,37N,1E	Washington			x	x			B			
Alley Br.	P	1.0	Mouth	25,29N,5W	Shannon			x	x			B			
Alley Br.	C	2.0	25,29N,5W	22,29N,5W	Shannon			x	x			B			
Trib. to Alley Br.	C	1.0	Mouth	22,29N,5W	Shannon			x	x			B			
Allie Cr.	C	3.0	Mouth	1,33N,10E	Cape Girardeau	Bollinger		x	x			B			
Anderson Br.	C	1.0	Mouth	31,45N,20W	Pettis			x	x			B			
Anderson Cr.	C	1.9	Mouth	31,33N,09W	Texas			x	x			B			
Andrew Br.	C	1.0	Mouth	Sur 3062,37N,6E	St. Francois			x	x			B			
Anthony Br.	P	0.5	Mouth	6,22N,5W	Oregon			x	x			B			
Antire Cr.	P	1.5	Mouth	33,44N,4E	St. Louis			x	x			B			
Apple Cr.	P	44.0	Mouth	16,34N,10E	Perry			x	x			[x/A]	x	x	
Apple Cr.	C	1.5	16,34N,10E	Hwy. 51	Perry			x	x			B			
Trib. to Apple Cr.	C	3.0	Mouth	Hwy. 51	Perry			x	x			B			
Trib. to Apple Cr.	C	0.5	Mouth	16,34N,10E	Perry			x	x			B			
Arapahoe Cr.	C	8.0	Mouth	11,61N,36W	Andrew			x	x			B			
Archer Cr.	P	1.5	Mouth	14,41N,20W	Benton			x	x			B			
Arnault Br.	P	2.0	Mouth	10,38N,2E	Washington			x	x			B			
Arnault Br.	C	1.0	10,38N,2E	15,38N,2E	Washington			x	x			B			
Arnold Cr.	C	1.5	Mouth	24,40N,1E	Washington			x	x			B			
Arthur Cr.	P	4.5	Mouth	14,31N,9W	Texas			x	x			B			
Arthur Cr.	C	2.5	14,31N,9W	26,31N,9W	Texas			x	x			B			
Ash Ditch	P	6.0	Mouth	13,25N,14E	New Madrid			x	x			B			
Ash Ditch	C	8.0	13,25N,14E	5,26N,15E	New Madrid	Mississippi		x	x			B			
Ash Slough Ditch	P	17.0	Mouth	35,26N,13E	New Madrid		x	x	x			B	x		
Asher Cr.	P	7.0	Mouth	4,30N,23W	Greene			x	x			B			
Asher Cr.	C	4.0	4,30N,23W	14,30N,23W	Greene			x	x			B			
Asher Cr.	P	1.0	Mouth	1,26N,7E	Wayne			x	x			B			
Asher Cr.	C	1.0	1,26N,7E	2,26N,7E	Wayne			x	x			B			
Asher Hollow Cr.	C	3.6	Mouth	24,37N,06W	Crawford	Phelps		x	x			B			
Ashley Br.	P	0.5	Mouth	30,39N,1W	Washington			x	x			B			
Ashley Br.	C	2.0	30,39N,1W	32,39N,1W	Washington			x	x			B			
Ashley Cr.	P	2.5	Mouth	35,32N,7W	Dent			x	x			B			
Ashly Br.	C	0.5	Mouth	27,38N,1E	Washington			x	x			B			
Aslinger Cr.	P	1.0	Mouth	16,32N,8E	Madison			x	x			B			
Aslinger Cr.	C	1.0	16,32N,8E	County Line	Madison			x	x			B			
Atwell Cr.	P	1.0	Mouth	2,38N,12W	Miller			x	x			B			
Atwell Cr.	C	2.0	2,38N,12W	11,38N,12W	Miller			x	x			B			
Trib. to Atwell Cr.	C	3.0	Mouth	05,38N,11W	Miller	Maries		x	x			B			
Trib. to Unnamed trib to Atwell Cr.	C	0.6	Mouth	07,38N,11W	Maries			x	x			B			
Auxvasse Cr.	P	7.5	Mouth	8,46N,8W	Callaway			x	x			B	x		
Auxvasse Cr.	C	30.0	8,46N,8W	22,49N,10W	Callaway			x	x			B			
Bachelor Cr.	C	6.0	Mouth	19,49N,7W	Callaway			x	x			B			
Bachelor Cr.	C	1.0	Mouth	8,42N,1W	Franklin			x	x			B			
Back Cr.	C	3.0	Mouth	11,35N,6E	St. Francois			x	x			B			
Bagby Br.	C	1.5	Mouth	1,52N,16W	Randolph			x	x			B			
Bailey Br.	P	1.5	Mouth	31,36N,1W	Washington			x	x			B			
Baileys Cr.	P	14.0	Mouth	5,44N,7W	Gasconade	Osage		x	x			B			
Baileys Cr.	C	4.0	5,44N,7W	20,44N,7W	Osage			x	x			B			
Trib. to Baileys Cr.	C	0.5	Mouth	27,45N,7W	Osage			x	x			B			
Trib. to Baileys Cr.	C	0.8	Mouth	06,45N,06W	Gasconade			x	x			B			
Trib. to Baileys Cr.	P	0.8	Mouth	32,45N,07W	Osage			x	x			B			
Baker Br.	C	2.0	Mouth	35,38N,28W	St. Clair			x	x			B			
Baker Cr.	C	3.5	32,29N,15W	12,28N,16W	Wright			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
LWW-Livestock & Wildlife Watering
AQL-Protection of Warm Water Aquatic Life

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CDF-Cold Water Fishery
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Bald Ridge Cr.	C	10.0	Mouth	13,33N,11W	Pulaski	Texas		x	x			/x/A			
Baltimore Cr.	C	2.0	Mouth	33,33N,9E	Bollinger			x	x			B			
Bank Br.	C	5.0	Mouth	35,37N,17W	Camden			x	x		x	B			
Bannister Hollow	C	4.0	Mouth	36,38N,19W	Camden			x	x			B			
Barber Cr.	C	7.5	Mouth	Hwy. 136	Sullivan	Putnam		x	x			B			
Barbers Cr.	C	3.0	Mouth	8,25N,19W	Christian			x	x			B			
Barkers Cr.	C	13.0	Mouth	09,43N,23W	Henry	Benton		x	x			B			
Trib. to Barkers Cr.	C	1.0	Mouth	15,42N,24W	Henry			x	x			B			
Barn Hollow	C	8.0	Mouth	18,27N,7W	Texas	Howell		x	x			B			
Trib. to Barn Hollow	C	1.0	Mouth	4,27N,7W	Texas	Howell		x	x			B			
Barnes Cr.	C	1.0	Mouth	34,29N,7E	Wayne			x	x			B			
Barnes Cr.	C	1.0	Mouth	4,33N,6E	Madison			x	x			B			
Barney Cr.	C	4.0	Mouth	Hwy. 32	Dent			x	x			B			
Barnitz Prong	P	3.0	Mouth	21,34N,7W	Dent			x	x			B			
Barren Cr.	C	3.0	Mouth	3,33N,24W	Polk			x	x			B			
Barren Cr.	C	4.0	State Line	8,21N,11W	Ozark			x	x			B			
Barren Fk.	P	6.0	Mouth	30,39N,13W	Miller			x	x		x	/x/A			
Barren Fk.	C	2.0	30,39N,13W	5,38N,13W	Miller			x	x			/x/A			
Trib. to Barren Fork	C	1.5	Mouth	36,44N,05W	Gasconade			x	x			B			
Trib. to Barren Fk.	C	1.0	Mouth	31,39N,13W	Miller			x	x			B			
Barren Fk.	C	4.0	Mouth	5,43N,4W	Franklin	Gasconade		x	x			B			
Barren Fk.	C	7.0	Mouth	10,23N,14W	Ozark			x	x			B			
Barren Fk.	P	2.0	Mouth	20,31N,4W	Shannon			x	x		x	B			
Barren Fk.	P	7.0	20,31N,4W	32,32N,4W	Shannon	Dent		x	x			B			
Barren Fk.	C	3.0	32,32N,4W	28,32N,4W	Dent			x	x			B			
Barren Hollow	C	0.5	Mouth	16,33N,5E	Madison			x	x			B			
Barrett Hollow	C	1.5	Mouth	1,22N,15W	Ozark			x	x			B			
Bartlett Cr.	C	7.5	Mouth	9,49N,17W	Howard			x	x			B			
Basin Fk.	C	12.7	Mouth	17,44N,23W	Pettis			x	x			B			
Trib. to Basin Fk.	C	2.3	Mouth	23,44N,23W	Pettis			x	x			B			
Trib. to Basin Fk.	C	2.4	Mouth	36,45N,23W	Pettis			x	x			B			
Bass Cr.	C	4.0	Mouth	Hwy. 63	Boone			x	x			/x/A			
Bates Cr.	P	2.0	Mouth	16,37N,2E	Washington			x	x			B			
Bates Cr.	C	2.0	16,37N,2E	28,37N,2E	Washington			x	x			B			
Trib to Bates Cr.	C	1.0	Mouth	16,37N,02E	Washington			x	x			B			
Batts Cr.	C	6.5	Mouth	19,52N,16W	Chariton	Howard		x	x			B			
Bauer Br.	C	2.5	Mouth	29,42N,21W	Benton			x	x			B			
Trib. to Bauer Br.	C	1.5	Mouth	28,43N,21W	Benton			x	x			B			
Bay De Charles	P1	7.0	Mouth	14,58N,5W	Marion			x	x			/x/A	x		
Trib. to Bay de Charles	P1	2.5	Mouth	6,57N,4W	Marion			x	x			B			
Trib. to Bay de Charles	C	3.0	6,57N,4W	24,58N,5W	Marion			x	x			B			
Baynham Br.	P	4.0	Mouth	17,26N,31W	Newton			x	x			B			
Bean Br.	C	7.0	Mouth	Hwy. 54	Audrain			x	x			B			
Bean Cr.	C	6.0	Mouth	9,32N,8W	Dent	Texas		x	x			B			
Bear Br.	C	2.0	Mouth	19,44N,15W	Moniteau			x	x			B			
Bear Br.	C	1.5	Mouth	17,31N,10E	Bollinger			x	x			B			
Bear Br.	C	3.0	Mouth	1,24N,16W	Ozark			x	x			B			
Bear Br.	C	2.0	Mouth	29,31N,3E	Reynolds	Iron		x	x			B			
Bear Camp Cr.	C	4.5	Mouth	31,26N,1E	Carter			x	x			B			
Bear Claw Spring	P	0.2	Mouth	33,30N,08W	Texas			x	x			B			
Bear Cr.	P	1.3	Mouth	34,43N,04E	Jefferson			x	x			B			
Bear Cr.	P	2.5	Mouth	33,57N,4W	Marion			x	x			B			
Bear Cr.	C	6.0	33,57N,4W	29,57N,5W	Marion			x	x			B			
Bear Cr.	C	16.0	Mouth	33,65N,10W	Clark	Scotland		x	x			B			
Bear Cr.	C	33.0	Mouth	8,61N,14W	Shelby	Adair	x	x	x			B			
Bear Cr.	C	15.0	Mouth	4,48N,4W	Lincoln	Montgomery		x	x			B			
Bear Cr.	C	9.8	Mouth	15,54N,36W	Platte			x	x			B			
Bear Cr.	C	4.0	Mouth	29,52N,19W	Saline			x	x			B			
Bear Cr.	C	8.0	Mouth	8,59N,19W	Linn			x	x			B			
Bear Cr.	C	8.0	Mouth	32,46N,25W	Johnson			x	x			B			
Bear Cr.	C	6.0	Mouth	31,49N,12W	Boone			x	x			B			

IRR-Irrigation
LWW-Livestock & Wildlife Watering
AQL-Protection of Warm Water Aquatic Life

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CDF-Cold Water Fishery
WBC-Whole Body Contact Recreation

[BTG-Boating and Canoeing]
DWS-Drinking Water Supply
IND-Industrial

[BTG]
IRR LWW AQL CLF CDF WBC SCR DWS IND

TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Bear Cr.	C	1.0	Mouth	31,40N,14W	Miller			x	x			B			
Bear Cr.	C	2.0	Mouth	31,43N,9W	Osage			x	x			B			
Bear Cr.	P	1.5	Mouth	15,38N,24W	St. Clair			x	x			/x/A	x		
Bear Cr.	C	3.5	15,38N,24W	35,38N,24W	St. Clair			x	x			B		x	
Bear Cr.	C	7.0	Mouth	17,40N,27W	Henry			x	x			B			
Bear Cr.	C	10.0	Mouth	2,44N,28W	Johnson			x	x			B			
Bear Cr.	C	5.0	Mouth	5,33N,28W	Cedar			x	x			B			
Bear Cr.	P	27.0	Mouth	20,33N,23W	Cedar	Polk		x	x			B			
Bear Cr.	C	11.5	Mouth	22,35N,15W	Pulaski	Laclede		x	x			B			
Bear Cr.	C	2.0	Mouth	25,29N,10W	Texas			x	x			B			
Bear Cr.	P	2.5	Mouth	36,47N,5W	Montgomery			x	x			B			
Bear Cr.	C	3.0	36,47N,5W	20,47N,4W	Montgomery	Warren		x	x			B			
Bear Cr.	C	3.0	Mouth	8,37N,4E	St. Francois			x	x			B			
Bear Cr.	P	24.0	Mouth	25,30N,6E	Bollinger	Wayne		x	x			/x/A			
Bear Cr.	P	4.0	Mouth	18,24N,21W	Taney			x	x			/x/A	x		
Bear Cr.	C	6.0	18,24N,21W	36,25N,22W	Taney	Christian		x	x			/x/A	x		
Beaver Br.	P	2.0	Mouth	36,23N,33W	McDonald			x	x			B			
Beaver Br.	P	1.5	19,23N,32W	17,23N,32W	McDonald			x	x			B			
Beaver Br.	C	3.0	36,23N,33W	19,23N,32W	McDonald			x	x			B			
Beaver Cr.	P	22.0	Mouth	29,30N,12W	Wright	Texas		x	x	x		B			
Trib. to Beaver Cr.	C	1.0	Mouth	25,29N,12W	Texas			x	x			B			
Beaver Cr.	C	4.0	29,30N,12W	4,29N,12W	Wright			x	x			/x/A			
Beaver Cr.	P	5.0	4,29N,12W	26,29N,12W	Wright	Texas		x	x			B			
Beaver Cr.	C	4.0	Mouth	33,37N,8W	Phelps			x	x			/x/A			
Beaver Cr.	C	1.0	Mouth	14,40N,2W	Crawford			x	x			B			
Beaver Cr.	P	44.5	Mouth	23,27N,17W	Taney	Douglas	x	x	x	x		/x/A	x		
Trib. to Beaver Cr.	C	1.0	Mouth	23,24N,18W	Taney			x	x			B			
Beaver Cr.	C	2.0	23,27N,17W	10,27N,17W	Douglas			x	x			B			
Beaver Dam Cr.	C	5.0	Mouth	02,46N,23W	Pettis			x	x			B			
Beaver Dam Cr.	C	5.0	Mouth	Hwy. 54	Audrain			x	x			B			
Beaver Dam Cr.	P	8.0	Mouth	9,24N,4E	Butler	Ripley	x	x	x			/x/A			
Beaver Dam Cr.	C	2.0	9,24N,4E	5,24N,4E	Ripley			x	x			B			
Beaver Dam Cr.	C	5.0	Mouth	02,46N,23W	Pettis			x	x			B			
Trib. to Beaver Dam Ck.	C	0.7	Mouth	25,47N,23W	Pettis			x	x			B			
Trib. to Beaver Dam Ck.	C	0.8	Mouth	24,47N,23W	Pettis			x	x			B			
Becky Cobb Cr.	C	4.0	Mouth	29,23N,13W	Ozark			x	x			B			
Bee Br.	C	6.0	Mouth	10,55N,17W	Chariton			x	x			B			
Bee Br.	C	4.3	Mouth	06,47N,23W	Pettis			x	x			B			
Bee Br.	C	5.8	Mouth	20,37N,30W	Vernon			x	x			B			
Bee Br.	C	0.2	Mouth	32,46N,23W	Pettis	Johnson		x	x			B			
Bee Cr.	C	4.5	Mouth	7,53N,10W	Monroe			x	x			B			
Bee Cr.	C	21.0	Mouth	11,55N,35W	Platte	Buchanan		x	x			B			
Trib. to Bee Cr.	C	2.0	Mouth	3,54N,35W	Platte			x	x			B			
Bee Cr.	C	1.6	Mouth	17,23N,21W	Taney			x	x		x	B			
Bee Cr.	C	3.5	Mouth	5,21N,20W	Taney			x	x			/x/A			
Bee Fk.	C	8.5	Mouth	30,32N,1W	Reynolds			x	x	x		/x/A			
Beef Br.	P	2.5	Mouth	11,26N,33W	Newton			x	x			B			
Beehive Hollow	C	2.0	Mouth	33,26N,4E	Butler			x	x			B			
Bee Rock Hollow	C	1.4	Mouth	03,31N,07W	Texas			x	x			B			
Bee Run	C	2.1	Mouth	24,38N,04E	St. Francois			x	x			B			
Beecham Br.	C	0.9	Mouth	01,36N,29W	Vernon			x	x			B			
Beeler Br.	P	1.5	Mouth	7,28N,10W	Texas			x	x			B			
Beeler Br.	C	1.0	7,28N,10W	18,28N,10W	Texas			x	x			B			
Trib. to Beeler Br.	C	1.0	Mouth	20,28N,10W	Texas			x	x			B			
Beeman Br.	P	1.0	14,26N,34W	13,26N,34W	McDonald			x	x			B			
Belew Cr.	P	6.6	Mouth	28,41N,04E	Jefferson			x	x			B			
Bell Cr.	C	6.0	Mouth	9,37N,12W	Pulaski			x	x			B			
Bell Fountain Ditch	P	18.0	29,16N,9E	12,16N,11E	Dunklin	Pemiscot		x	x			B			
Bell Pond Hollow	C	1.5	Mouth	32,24N,11W	Ozark			x	x			B			
Belleau Cr.	C	4.5	Mouth	6,47N,4E	St. Charles			x	x			B			
Ben Br.	C	1.0	Mouth	22,44N,8W	Osage			x	x			B			
Bender Cr.	P	3.0	Mouth	13,31N,9W	Texas			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Bender Cr.	C	3.0	13,31N,9W	8,31N,8W	Texas			x	x			B			
Bennett Cr.	C	2.0	Mouth	30,30N,6E	Wayne			x	x			B			
Bennett Hollow	C	2.0	Mouth	13,23N,15W	Ozark			x	x			B			
Bennett Springs Cr.	P	2.0	Mouth	Bennett Springs	Laclede			x	x		x	B			
Bennetts Bayou	P	6.0	State Line	30,22N,10W	Ozark	Howell		x	x			B			
Bennetts Bayou	C	2.0	30,22N,10W	16,22N,10W	Howell			x	x			B			
Bennetts R.	C	4.0	State Line	24,22N,10W	Howell			x	x			B			
Benton Br.	P	0.5	Mouth	11,34N,19W	Dallas			x	x			B			
Benton Br.	C	1.0	11,34N,19W	11,34N,19W	Dallas			x	x			B			
Benton Cr.	P	6.0	Mouth	29,36N,5W	Crawford			x	x			/x/A			
Benton Cr.	C	2.0	29,36N,5W	31,36N,5W	Crawford			x	x			B			
Trib. to Benton Cr.	P	0.5	Mouth	5,36N,5W	Crawford			x	x			B			
Big Barren Cr.	C	19.0	Mouth	32,26N,2W	Ripley	Carter		x	x	x		/x/A			
Big Berger Cr.	P	10.0	Mouth	26,45N,4W	Franklin			x	x			B			
Big Berger Cr.	C	7.5	26,45N,4W	17,44N,4W	Franklin	Gasconade		x	x			B			
Trib. to Big Berger Cr.	C	1.0	Mouth	35,45N,4W	Franklin			x	x			B			
Big Blue Br.	P	1.0	Mouth	12,31N,9E	Bollinger			x	x			B			
Big Blue Br.	C	1.5	12,31N,9E	6,31N,10E	Bollinger			x	x			B			
Big Bottom Cr.	C	5.0	Mouth	13,37N,7E	Ste. Genevieve			x	x			B			
Big Br.	C	2.0	Mouth	22,46N,11W	Callaway			x	x			B			
Big Br.	C	0.5	Mouth	22,43N,04W	Franklin			x	x			B			
Trib. to Big Br.	C	0.8	Mouth	14,44N,04W	Franklin			x	x			B			
Big Branch	C	3.2	Mouth	23,44N,04W	Franklin			x	x			B			
Big Brushy Cr.	P	8.0	Mouth	9,27N,3E	Wayne	Carter		x	x			/x/A			
Big Brushy Cr.	C	7.0	9,27N,3E	4,27N,2E	Carter			x	x			B			
Big Buffalo Cr.	P	[4.4]/6.0	Mouth	[12,41N,20W] 06,41N,19W	Benton	Morgan		x	x	x		B	x		
Big Buffalo Cr.	C	[4.1]/2.5	[12,41N, 20W] 06,41N,19W	28,[41]/42N,19W	Morgan		x	x	x			B			
Trib. to Big Buffalo Cove	C	0.8	Mouth	35,41N,20W	Benton			x	x			B			
Trib. to Big Buffalo Cr	C	0.2	Mouth	12,41N,20W	Benton			x	x			B			
Big Cane Cr.	C	2.0	State Line	26,22N,5E	Butler		x	x	x			B			
Big Cr.	P	10.0	Mouth	25,48N,1W	Lincoln			x	x			/x/A	x		
Big Cr.	C	10.0	25,48N,1W	8,47N,2W	Lincoln	Warren		x	x			B			
Big Cr.	P	22.0	Mouth	9,63N,28W	Daviess	Harrison		x	x			B		x	
Big Cr.	P	24.0	Mouth	9,54N,23W	Carroll			x	x			B			
Big Cr.	C	1.5	9,54N,23W	8,54N,23W	Carroll			x	x			B			
Big Cr.	P	61.3	Mouth	Hwy. 150	Henry	Jackson		x	x			B			
Big Cr.	P	7.0	Mouth	21,31N,7E	Wayne	Madison		x	x			/x/A			
Big Cr.	C	4.3	Hwy. 150	20,47N,31W	Jackson			x	x			B			
Big Cr.	C	3.0	Mouth	16,42N,3W	Franklin			x	x			B			
Big Cr.	C	3.0	21,31N,7E	9,31N,7E	Madison			x	x			B			
Big Cr.	C	5.0	Mouth	25,23N,17W	Taney			x	x			/x/A			
Big Cr.	P	18.0	Mouth	5,31N,2W	Shannon			x	x			/x/A			
Big Cr.	C	27.0	Mouth	5,29N,8W	Shannon	Texas		x	x	x		B			
Trib. to Big Cr.	C	3.8	Mouth	Lake Harrisonville	Cass			x	x			B			
Trib. to Big Cr.	C	3.0	Mouth	4,29N,8W	Texas			x	x			B			
Trib. to Big Cr.	C	2.0	Mouth	2,29N,8W	Texas			x	x			B			
Big Cr.	P	32.0	Mouth	23,33N,3E	Wayne	Iron		x	x	x		/x/A	x		
Big Cr.	C	0.5	23,33N,3E	23,33N,3E	Iron			x	x			B			
Trib. to Big Cr.	C	1.0	Mouth	24,31N,3E	Iron			x	x			B			
Trib. to Big Cr.	C	1.0	Mouth	35,32N,3E	Iron			x	x			B			
Big Cr. Cutoff	C	1.5	Mouth	1,30N,3E	Iron			x	x			B			
Big Deer Cr.	C	4.0	Mouth	27,42N,31W	Bates			x	x			B			
Big George Br.	C	2.0	Mouth	18,32N,28W	Barton	Dade		x	x			B			
Big Gulch	C	1.5	Mouth	8,27N,11W	Douglas			x	x			B			
Big Hollow Cr.	C	2.0	Mouth	17,32N,10E	Bollinger			x	x			B			
Big Hollow	C	3.2	Mouth	23,22N,21W	Taney			x	x			B			
Big Hunting Slough	C	12.0	Mouth	24,23N,6E	Butler			x	x			B			

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Big Lake Bayou	C	13.0	Mouth	25,27N,15E	Mississippi			x	x			B			
Trib. to Big Lake Bayou	C	3.5	Mouth	19,27N,16E	Mississippi			x	x			B			
Big Lake Cr.	P	5.5	Mouth	19,28N,5E	Wayne			x	x			B			
Big Lake Cr.	C	6.0	19,28N,5E	36,29N,4E	Wayne			x	x			B			
Big Lead Cr.	C	5.0	27,50N,2W	18,50N,2W	Lincoln			x	x			B			
Big Muddy Cr.	P	8.0	Mouth	33,60N,27W	Daviess			x	x			B			
Big Muddy Cr.	C	11.0	33,60N,27W	9,61N,27W	Daviess			x	x			B			
Big Muddy Cr.	P	9.0	Mouth	11,64N,30W	Gentry			x	x			B			
Big Muddy Cr.	C	8.0	11,64N,30W	3,65N,29W	Gentry	Harrison		x	x			B			
Big No Cr.	C	4.0	14,62N,23W	26,63N,23W	Grundy			x	x			B			
Big Otter Cr.	C	2.0	Mouth	31,40N,25W	Henry			x	x			B			
Trib. to Big Otter Cr.	C	1.0	Mouth	32,40N,25W	Henry			x	x			B			
Big Paddy Cr.	C	4.0	Mouth	32,33N,10W	Texas			x	x			B			
Big Piney R.	P	99.0	Mouth	16,29N,10W	Pulaski	Texas	x	x	x	x		/x/A	x	x	
Big Piney R.	P	8.0	16,29N,10W	12,28N,11W	Texas			x	x			/x/A	x	x	
Big R.	P	53.0	Mouth	Sur 3166,40N,3E	Jefferson		x	x	x	x		/x/A	x		x
Big R.	P	68.0	Sur 3166,40N,3E	12,35N,1E	Jefferson	Washington		x	x			/x/A			x
Big R.	C	2.5	12,35N,1E	Council Bluff											
			Lk. D.		Washington	Iron		x	x			B			
Big R.	C	2.0	27,35N,1E	33,35N,1E	Iron			x	x			B			
Trib. to Big R.	C	0.8	Mouth	21,37N,05E	St. Francois			x	x			B			
Trib. to Big R.	C	1.0	Mouth	26,39N,3E	Washington			x	x			B			
Trib. to Big R.	C	1.0	Mouth	2,36N,3E	Washington			x	x			B			
Big River Cr.	C	0.7	Mouth	09,40N,05W	Gasconade			x	x			B			
Big Rock Cr.	P	3.0	Mouth	8,65N,30W	Worth			x	x			B			
Big Rock Cr.	C	3.0	8,65N,30W	36,66N,30W	Worth			x	x			B			
Big Sugar Cr.	P	31.0	34,22N,32W	27,21N,29W	McDonald	Barry	x	x	x	x		/x/A	x		
Big Sugar Cr.	C	4.0	27,21N,28W	20,21N,28W	Barry			x	x			B			
Big Tavern Cr.	C	3.0	Mouth	23,46N,7W	Callaway			x	x			B			
Big Tavern Cr.	P	2.0	Mouth	12,44N,2E	Franklin			x	x			B			
Big Turkey Cr.	C	14.0	Mouth	5,38N,21W	Benton			x	x			B			
Bigelow's Cr.	C	5.0	Mouth	15,44N,1E	St. Charles			x	x			B			
Billies Cr.	C	5.5	Mouth	36,29N,25W	Lawrence			x	x			B			
Trib. to Billies Cr.	C	1.5	Mouth	10,29N,25W	Lawrence			x	x			B			
Billy Cr.	C	5.0	Mouth	6,62N,16W	Adair			x	x			B			
Billy's Br.	P	2.0	Mouth	06,37N,01W	Crawford	Washington		x	x			B			
Billy's Br.	C	8.0	31,58N,13W	19,59N,13W	Macon			x	x			B			
Billy's Br.	C	1.6	06,37N,01W	05,37N,01W	Washington			x	x			B			
Birch Cr.	C	4.5	Mouth	6,42N,1E	Franklin			x	x			B			
Bird Br.	C	1.0	Mouth	14,41N,22W	Benton			x	x			B			
Trib. to Bird Br.	C	0.6	Mouth	14,41N,22W	Benton			x	x			B			
Birkhead Br.	C	2.0	Mouth	16,49N,2E	Lincoln			x	x			B			
Bitterroot Cr.	C	2.5	Mouth	30,37N,33W	Vernon			x	x			B			
Black Cr.	C	7.9	Mouth	35,43N,32W	Cass			x	x			B			
Black Cr.	P	19.0	Mouth	Hwy. 15	Shelby			x	x			B			
Black Cr.	C	15.0	Hwy. 15	14,59N,12W	Shelby			x	x			B			
Black Jack Cr.	C	4.0	Mouth	16,47N,25W	Johnson			x	x			B			
Black R.	P	45.0	State Line	16,25N,6E	Butler		x	x	x	x		/x/A	x	x	
Black R.	P	35.0	16,25N,6E	Clearwater Dam	Butler	Wayne	x	x	x	x		/x/A	x	x	
Black R.	P	26.0	7,29N,3E	17,32N,2E	Reynolds		x	x	x	x		/x/A	x		x
Trib. to Black R.	C	1.5	Mouth	11,30N,2E	Reynolds			x	x			B			
Trib. to Black R.	C	1.0	Mouth	36,26N,5E	Butler			x	x			B			
Ditch to Black R.	P	11.0	Mouth	3,23N,7E	Butler		x	x	x			B			
Ditch to Black R.	C	11.0	3,23N,7E	9,25N,7E	Butler		x	x	x			B			
Ditch to Black R.	C	12.0	34,24N,7E	35,26N,7E	Butler			x	x			B			
Black R. Ditch	P	10.0	State Line	32,23N,7E	Butler		x	x	x			B			
Blackberry Cr.	C	6.5	Mouth	28,30N,33W	Jasper			x	x			B			
Blackbird Cr.	P	6.0	Mouth	2,64N,17W	Adair	Putnam		x	x			/x/A			
Blackwater R.	P	76.0	Mouth	12,46N,27W	Cooper	Johnson	x	x	x			/x/A	x	x	
Trib. to Blackwater R.	C	0.5	Mouth	21,48N,23W	Pettis			x	x			B			
Trib. to Blackwater R.	C	1.7	Mouth	29,48N,23W	Pettis			x	x			B			

[BTG]

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												WBC	SCR	DWS	IND
Trib. to Blackwater R.	C	0.7	Mouth	19,48N,22W	Saline	Pettis		x	x			B			
Trib. to Blackwater R.	C	1.1	Mouth	24,48N,22W	Saline	Pettis		x	x			B			
Blair Cr.	P	8.0	Mouth	31,30N,2W	Shannon			x	x			B			
Blair Cr.	C	4.0	31,30N,2W	18,30N,2W	Shannon			x	x			B			
Blair Hollow	C	1.0	Mouth	1,22N,12W	Ozark			x	x			B			
Blay Cr.	C	2.0	Mouth	36,37N,3E	St. Francois	Washington		x	x			B			
Block Br.	P	0.3	Mouth	18,41N,04W	Gasconade			x	x			B			
Block Br.	C	1.6	18,41N,04W	12,41N,05W	Gasconade			x	x			B			
Bloom Cr.	C	3.5	Mouth	36,36N,7E	Ste. Genevieve			x	x			B			
Blue Cr.	C	1.5	Mouth	31,46N,8W	Callaway			x	x			B			
Blue Cr.	P	2.0	Mouth	Hwy. 87	Howard			x	x			B			
Blue Cr.	C	1.0	Hwy. 87	4,50N,17W	Howard			x	x			B			
Blue Cr.	P	1.0	Mouth	6,33N,9E	Bollinger			x	x			B			
Blue Cr.	C	1.0	6,33N,9E	7,33N,9E	Bollinger			x	x			B			
Blue Ditch	P	6.0	Mouth	14,27N,14E	Scott		x	x	x			B	x		
Blue Ditch	C	5.0	14,27N,14E	29,28N,14E	Scott		x	x	x			B	x		
Blue R.	P	4.0	Mouth	Guinotte Dam	Jackson			x	x			B			x
Blue R.	P	9.0	Guinotte Dam	59th St.	Jackson			x	x			B	x		x
Blue R.	P	9.0	59th St.	Bannister Rd.	Jackson			x	x			/x/A	x		
Blue R.	C	11.0	Bannister Rd	State Line	Jackson			x	x			B	x		
Blue Shawnee Cr.	P	2.0	8,33N,13E	17,33N,13E	Cape Girardeau			x	x			B			
Blue Shawnee Cr.	C	2.0	17,33N,13E	29,33N,13E	Cape Girardeau			x	x			B			
Tr. to Blue Shawnee Cr.	C	1.5	Mouth	21,33N,13E	Cape Girardeau			x	x			B			
Blue Spring Cr.	P	1.5	1,40N,16W	35,41N,16W	Miller			x	x			B			
Blue Spring Cr.	C	0.5	35,41N,16W	26,41N,16W	Miller			x	x			B			
Blue Spring Slough	C	10.0	26,24N,7E	2,25N,7E	Butler			x	x			B			
Blue Springs Cr.	P	4.0	Mouth	2,39N,3W	Crawford			x	x		x	/x/A			
Blue Springs Cr.	C	1.0	2,39N,3W	3,39N,3W	Crawford			x	x			B			
Bluewater Cr.	C	1.5	Mouth	11,26N,6E	Butler			x	x			B			
Blythes Cr.	P	6.5	Mouth	Bus. Hwy. 54	Moniteau	Miller		x	x			B			
Bobs Cr.	P1	4.5	Mouth	Hwy. 79	Lincoln			x	x			B			
Bobs Cr.	P	1.5	Hwy. 79	34,49N,2E	Lincoln			x	x			B			
Bobs Cr.	C	12.5	34,49N,2E	27,50N,1E	Lincoln			x	x			B			
Boeuf Cr.	P	28.0	Mouth	15,43N,4W	Franklin		x	x	x			/x/A			
Boeuf Cr.	C	7.0	15,43N,4W	5,42N,4W	Gasconade			x	x			B			
Trib. to Boeuf Cr.	C	1.0	Mouth	21,44N,3W	Franklin			x	x			B			
Trib. to Boeuf Cr.	C	1.5	Mouth	17,44N,3W	Franklin			x	x			B			
Trib. to Boeuf Cr.	C	1.0	Mouth	17,44N,2W	Franklin			x	x			B			
Trib. to Boeuf Cr.	C	1.5	Mouth	35,45N,3W	Franklin			x	x			B			
Trib. to Boeuf Cr.	C	0.2	Mouth	12,43N,04W	Franklin			x	x			B			
Trib. to Boeuf Cr.	C	1.5	Mouth	30,43N,4W	Gasconade			x	x			B			
Trib. to Boeuf Cr.	C	1.3	Mouth	08,42N,04W	Gasconade			x	x			B			
Boiling Spring	P	0.1	Mouth	24,32N,10W	Texas			x	x			B			
Boiling Spr. Hollow	C	1.5	Mouth	3,36N,1W	Washington			x	x			B			
Bois Brule Cr.	P	1.5	Mouth	20,42N,12W	Cole			x	x			B			
Bois Brule Cr.	C	9.0	20,42N,12W	20,42N,13W	Cole			x	x			B			
Trib. to Bois Brule Cr.	C	0.5	Mouth	15,42N,13W	Cole			x	x			B			
Trib. to Bois Brule Cr.	C	0.5	Mouth	24,42N,13W	Cole			x	x			B			
Bois Brule Ditch	P	4.0	Mouth	16,36N,11E	Perry			x	x			B			
Trib. to Bois Brule Ditch	P	2.0	Mouth	4,36N,11E	Perry			x	x			B			
Trib. to Bois Brule Ditch	C	1.0	4,36N,11E	Sur 147,37N,11E	Perry			x	x			B			
Tr. to Bois Brule Ditch	C	1.0	Mouth	Sur 1870,36N,11E	Perry			x	x			B			
Bollinger Br.	C	4.0	Mouth	15,24N,12W	Ozark			x	x			B			
Bollinger Cr.	C	2.0	5,39N,18W	7,39N,18W	Camden			x	x			B			
Bones Br.	C	5.5	Mouth	29,41N,31W	Bates			x	x			B			
Bonhomme Cr.	C	2.0	Mouth	1 Mi. above Hwy. 70	St. Louis			x	x			B			
Bonne Femme Cr.	P	7.0	Mouth	20,47N,12W	Boone			x	x			/x/A			
Bonne Femme Cr.	C	6.0	20,47N,12W	2,47N,12W	Boone			x	x			B			
Bonne Femme Cr.	P	20.0	Mouth	36,51N,16W	Howard			x	x			B			

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Bonne Femme Cr.	C	11.0	36,51N,16W	22,52N,15W	Howard			x	x			B			
Boone Cr.	P	3.0	Mouth	16,32N,9W	Texas			x	x			B			
Boone Cr.	C	3.0	16,32N,9W	15,32N,9W	Texas			x	x			B			
Boone Cr.	P	3.0	Mouth	29,41N,3W	Franklin			x	x			B			
Boone Cr.	C	8.0	29,41N,3W	15,40N,3W	Franklin			x	x			B			
Trib. to Boone Cr.	C	0.3	Mouth	15,40N,03W	Crawford			x	x			B			
Boones Branch Cr.	C	2.5	Mouth	5,49N,17W	Howard			x	x			B			
Bounds Cr.	C	2.0	Mouth	30,29N,6E	Wayne			x	x			B			
Bourbeuse R.	P	132.0	Mouth	4,39N,6W	Franklin	Phelps	x	x	x	x		/x/A	x	x	
Bourbeuse R.	C	9.0	4,39N,6W	12,38N,7W	Phelps			x	x	x		B			
Trib. to Bourbeuse R.	C	1.8	14,40N,06W	Hwy. B	Gasconade			x	x			B			
Trib. to Bourbeuse R.	P	0.2	Mouth	14,40N,06W	Gasconade			x	x			B			
Bourne Cr.	P	1.9	Mouth	04,42N,04E	Jefferson			x	x			B			
Bradley Cr.	C	1.5	Mouth	6,45N,26W	Johnson			x	x			B			
Brashear Hollow	C	0.5	Mouth	33,39N,15W	Camden			x	x			B			
Brawley Cr.	C	3.0	Mouth	26,45N,26W	Johnson			x	x			B			
Bray Hollow	C	1.0	Mouth	27,23N,15W	Ozark			x	x			B			
Brazeau Cr.	P	9.0	Mouth	17,34N,13E	Perry			x	x			B			
Trib. to Brazeau Cr.	C	1.0	7,34N,13E	12,34N,12E	Perry			x	x			B			
Trib. to Brazeau Cr.	P	2.0	Mouth	7,34N,13E	Perry			x	x			B			
Brazil Cr.	P	13.0	Mouth	27,38N,1W	Crawford	Washington		x	x			/x/A			
Brazil Cr.	C	1.5	27,38N,1W	26,38N,1W	Washington			x	x			B			
Brewer Lake	P	3.5	8,26N,18E	26,27N,17E	Mississippi			x	x			B			
Brewer Lake Ditch	C	4.5	5,26N,18E	20,26N,18E	Mississippi			x	x			B			
Brewers Cr.	P	2.5	Mouth	29,34N,5E	Madison			x	x			B			
Brewers Cr.	C	1.0	29,34N,5E	19,34N,5E	Madison			x	x			B			
Trib. to Brewers Cr.	C	0.5	Mouth	19,34N,5E	Madison			x	x			B			
Briar Cr.	C	6.0	Mouth	13,23N,1E	Ripley			x	x			B			
Brickley Hollow	C	0.8	Mouth	35,41N,21W	Benton			x	x			B			
Bridge Cr.	C	7.0	Mouth	7,65N,13W	Scotland	Schuyler		x	x			B			
Bridge Cr.	C	13.0	Mouth	13,63N,12W	Lewis	Knox		x	x			B			
Bridge Cr.	C	1.5	Mouth	36,55N,23W	Carroll			x	x			B			
Bridges Cr.	C	5.0	Mouth	17,22N,11W	Ozark			x	x			B			
Bright Hollow	C	2.0	Mouth	32,25N,20W	Taney	Christian		x	x			B			
Brixey Cr.	C	2.5	Mouth	17,24N,13W	Ozark			x	x			B			
Broadus Br.	C	1.5	Mouth	15,37N,18W	Camden			x	x			B			
Brock Cr.	P	3.5	Mouth	3,35N,1E	Washington			x	x			B			
Brock Cr.	C	1.5	3,35N,1E	4,35N,1E	Washington			x	x			B			
Trib. to Brock Cr.	C	1.0	Mouth	35,36N,1E	Washington			x	x			B			
Browning Hollow	C	1.0	Mouth	20,26N,26W	Lawrence			x	x			B			
Browns Br.	C	3.0	Mouth	6,43N,1E	Franklin			x	x			B			
Trib. to Browns Br.	C	3.0	Mouth	13,43N,1W	Franklin			x	x			B			
Brush Cr.	C	4.0	Mouth	35,65N,14W	Schuyler			x	x			B			
Brush Cr.	C	5.0	Mouth	14,56N,10W	Monroe			x	x			B			
Brush Cr.	C	4.0	Mouth	2,53N,9W	Monroe			x	x			B			
Brush Cr.	C	7.0	Mouth	10,49N,4W	Montgomery			x	x			B			
Brush Cr.	P	1.6	Mouth	17,43N,10W	Osage			x	x			B			
Brush Cr.	C	8.0	Mouth	8,51N,34W	Platte			x	x			B			
Brush Cr.	C	5.4	Mouth	36,50N,27W	Lafayette			x	x			B			
Brush Cr.	C	4.5	Mouth	26,66N,25W	Mercer			x	x			B			
Brush Cr.	C	5.0	Mouth	8,65N,26W	Harrison			x	x			B			
Brush Cr.	C	22.5	Mouth	2,59N,17W	Chariton	Macon		x	x			B			
Brush Cr.	P	0.5	Mouth	27,43N,14W	Cole			x	x			B			
Brush Cr.	C	5.0	27,43N,14W	16,42N,14W	Cole	Miller		x	x			B			
Trib. to Brush Cr.	C	1.0	Mouth	34,43N,14W	Cole			x	x			B			
Brush Cr.	C	2.0	Mouth	32,40N,17W	Camden			x	x			B			
Brush Cr.	C	1.5	Mouth	27,38N,25W	St. Clair	Polk		x	x			B			
Brush Cr.	C	/9.2/9.0	Mouth	/30,43N,22W/ 35,43N,23W	Benton			x	x			B			
Trib. to Brush Cr.	C	1.6	Mouth	15,42N,23W	Benton			x	x			B			
Brush Cr.	P	3.2	Mouth	19,42N,23W	Henry	Benton		x	x			B			
Brush Cr.	P	/13.2/11.5	Mouth	/16,35N,24W/ 31,36N,24W	St. Clair	/Polk/		x	x	x		/x/A			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Brush Cr.	P	4.0	31,36N,24W	16,35N,24W	St. Clair	Polk		x	x			B			
Brush Cr.	C	2.0	16,35N,24W	[28,35N,24W] 22,35N,24W	Polk			x	x			B			
Brush Cr.	P	4.5	Mouth	27,33N,16W	Laclede			x	x			B			
Brush Cr.	C	2.0	27,33N,16W	32,33N,16W	Laclede			x	x			B			
[Brush Cr.	C	1.1	16,35N,24W		15,35N,24W	St. Clair	Polk			x]					
Brush Cr.	P	2.5	Mouth	18,42N,8W	Osage			x	x			B			
Brush Cr.	C	2.0	18,42N,8W	14,42N,9W	Osage			x	x			B			
Trib. to Brush Cr.	C	1.5	Mouth	19,42N,8W	Osage			x	x			B			
Trib. to Brush Cr.	C	2.0	Mouth	24,42N,9W	Osage			x	x			B			
Brush Cr.	P	1.0	Mouth	3,40N,1W	Franklin			x	x			B			
Brush Cr.	C	2.0	3,40N,1W	10,40N,1W	Franklin			x	x			B			
Brush Cr.	C	2.0	Mouth	11,43N,2E	Franklin			x	x			B			
Brush Cr.	C	1.5	Mouth	26,41N,6W	Gasconade			x	x			B			
Brush Cr.	P	14.5	Mouth	Indian Lake Dam	Gasconade	Crawford		x	x			[x/A			
Brush Cr.	C	2.0	23,39N,5W	27,39N,5W	Crawford			x	x			B			
Trib. to Brush Cr.	C	0.2	Mouth	28,36N,25W	St. Clair			x	x			B			
Trib. to Brush Cr.	C	1.2	Mouth	30,36N,25W	St. Clair			x	x			B			
Trib. to Brush Cr.	C	0.1	Mouth	26,39N,05W	Crawford			x	x			B			
Trib. to Brush Cr.	C	1.0	Mouth	34,40N,5W	Crawford			x	x			B			
Trib. to Brush Cr.	C	1.0	Mouth	30,40N,4W	Crawford			x	x			B			
Brush Cr.	P	7.0	Mouth	11,25N,13W	Ozark	Douglas		x	x			B			
Brush Cr.	C	1.5	11,25N,13W	1,25N,13W	Douglas			x	x			B			
Brush Cr.	C	1.0	Mouth	34,31N,4E	Iron			x	x			B			
Brush Cr.	C	2.0	Mouth	13,28N,8E	Wayne	Bollinger		x	x			B			
Brush Fk.	C	1.1	Mouth	23,45N,06W	Gasconade			x	x			B			
Brushy Br.	C	1.0	Mouth	1,42N,6W	Gasconade			x	x			B			
Brushy Br.	C	1.5	Mouth	11,49N,7W	Callaway			x	x			B			
Brushy Cr.	C	3.0	Mouth	Sur 1708,51N,1W	Lincoln			x	x			B			
Brushy Cr.	C	11.0	Mouth	State Line	Nodaway	Worth		x	x			B			
Brushy Cr.	C	7.0	Mouth	18,54N,29W	Caldwell	Ray		x	x			B			
Brushy Cr.	C	2.0	Mouth	1,52N,32W	Clay			x	x			B			
Brushy Cr.	C	5.0	Mouth	30,60N,26W	Daviess			x	x			B			
Brushy Cr.	C	5.0	Mouth	8,57N,29W	Caldwell			x	x			B			
Brushy Cr.	C	5.0	Mouth	7,46N,11W	Boone			x	x			B			
Brushy Cr.	P	[0.8/1.0	Mouth	[05/04,40N,20W	Benton			x	x			B			
Brushy Cr.	P	3.0	Mouth	Hwy. 63	Texas			x	x			B			
Brushy Cr.	C	4.0	Hwy. 63	14,30N,09W	Texas			x	x			B			
Brushy Cr.	C	2.5	Mouth	7,35N,9E	Ste. Genevieve			x	x			B			
Brushy Cr.	C	6.0	Mouth	Hwy. 125	Taney			x	x			B			
Brushy Cr.	P	3.0	Mouth	17,30N,3W	Shannon			x	x			B			
Brushy Cr.	C	1.0	17,30N,3W	16,30N,3W	Shannon			x	x			B			
Brushy Cr.	C	1.5	Mouth	27,46N,23W	Pettis			x	x			B			
Brushy Cr.	C	0.5	[5W/32,46N, 21W	SE6,46N,21W	Pettis			x	x			B			
Brushy Cr.	C	4.0	Mouth	25,33N,1W	Reynolds			x	x			B			
Brushy Cr.	P	3.0	Mouth	28,27N,4E	Wayne			x	x			[x/A			
Brushy Cr.	C	1.5	28,27N,4E	30,27N,4E	Wayne			x	x			[x/A			
Brushy Cr.	P	3.0	Mouth	SW32,46N,21W	Pettis			x	x			B			
Brushy Fk.	C	4.0	Mouth	21,40W,2E	Lincoln			x	x			B			
Brushy Fk.	C	5.0	Mouth	12,39N,14W	Miller			x	x	x		[x/A			
Brushy Fk.	C	1.0	Mouth	12,38N,1W	Washington			x	x			B			
Brushy Hollow	C	1.0	Mouth	25,23N,15W	Ozark			x	x			B			
Brushy Hollow Br.	P	1.5	Mouth	Sur 430,37N,2E	Washington			x	x			B			
Bryant Cr.	P	13.5	5,22N,12W	3,23N,12W	Ozark	Douglas		x	x	x		[x/A	x		
Bryant Cr.	P	1.0	3,23N,12W	34,24N,12W	Ozark			x	x		x	[x/A	x		
Bryant Cr.	P	43.0	34,24N,12W	17,27N,15W	Ozark	Douglas		x	x	x		[x/A	x		
Trib. to Bryant Cr.	C	1.5	Mouth	14,24N,13W	Ozark			x	x			B			
Bryants Cr.	C	13.5	Mouth	33,51N,1E	Pike	Lincoln		x	x			B			
Trib. to Bryants Cr.	C	3.0	Mouth	17,51N,1E	Lincoln			x	x			B			
Trib. to Bryants Cr.	C	1.0	Mouth	20,51N,1E	Lincoln			x	x			B			
Buchler Cr.	P	1.4	Mouth	14,42N,09W	Osage			x	x			B			

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												WBC	SCR	DWS	IND
Buck Br.	C	6.0	Mouth	18,29N,31W	Jasper			x	x			B			
Buck Cr.	C	1.0	Mouth	14,40N,5E	Jefferson			x	x			B			
Buck Cr.	P	4.0	Mouth	24,33N,9E	Bollinger			x	x			B			
Buck Cr.	C	1.0	24,33N,9E	14,33N,9E	Bollinger			x	x			B			
Buck Elk Br.	C	1.0	Mouth	11,41N,8W	Osage			x	x			B			
Buck Elk Cr.	P	1.5	Mouth	9,41N,8W	Osage			x	x			B			
Buck Elk Cr.	C	1.0	9,41N,8W	10,41N,8W	Osage			x	x			B			
Buck Lick Cr.	C	5.0	Mouth	30,44N,2W	Franklin			x	x			B			
Trib. to Buck Lick Cr.	C	1.5	Mouth	24,44N,3W	Franklin			x	x			B			
Trib. to Buck Lick Cr.	C	1.0	Mouth	29,44N,2W	Franklin			x	x			B			
Buckeye Cr.	P	3.0	Mouth	Hwy. 61	Cape Girardeau			x	x			B			
Buckeye Cr.	C	2.0	Hwy 61	26,33N,12E	Cape Girardeau			x	x			B			
Buffalo Cr.	P	2.0	Mouth	5,53N,1W	Pike			x	x			B			
Buffalo Cr.	C	4.0	5,53N,1W	18,53N,1W	Pike			x	x			B			
Buffalo Cr.	P	5.0	Mouth	20,24N,1E	Ripley		x	x	x			B			
Buffalo Cr.	P	10.0	State Line	5,23N,33W	McDonald		x	x	x	x	x	/x/A	x		
Buffalo Cr.	P	5.5	5,23N,33W	14,24N,33W	Newton		x	x	x	x		/x/A	x		
Buffalo Cr.	C	1.5	14,24N,33W	12,24N,33W	Newton			x	x			B			
Buffalo Cr.	C	2.1	Mouth	28,48N,22W	Saline	Pettis		x	x			B			
Buffalo Ditch	P	18.0	State Line	11,18N,9E	Dunklin			x	x			B			
Buffalo Ditch	C	3.0	11,18N,9E	36,19N,9E	Dunklin			x	x			B			
Bull Cr.	P	5.0	Mouth	34,24N,21W	Taney		x	x	x		x	/x/A	x		
Bull Cr.	P	17.5	34,24N,21W	33,26N,20W	Taney	Christian	x	x	x	x		/x/A	x		
Bull Cr.	C	3.0	33,26N,20W	22,26N,20W	Christian			x	x			/x/A			
Bullskin Cr.	P	3.0	Mouth	26,24N,32W	McDonald	Newton	x	x	x			B			
Buncomb Br.	C	1.2	Mouth	26,48N,23W	Pettis			x	x			B			
Burgher Br.	C	2.0	Mouth	7,37N,7W	Phelps			x	x			B			
Burkhart Br.	C	3.5	Mouth	12,31N,12W	Texas			x	x			B			
Burney Br.	C	4.5	Mouth	21,31N,24W	Dade	Greene		x	x			B			
Burr Oak Cr.	C	2.0	Mouth	33,54N,25W	Carroll			x	x			B			
Burr Oak Cr.	C	6.5	Mouth	19,49N,31W	Jackson			x	x			B			
Burris Fk.	P	11.5	Mouth	10,43N,16W	Moniteau			x	x			/x/A	x		
Burris Fk.	C	8.0	10,43N,16W	25,43N,17W	Moniteau	Morgan		x	x			B			
Trib. to Burris Fk.	C	0.5	Mouth	3,43N,16W	Moniteau			x	x			B			
Trib. to Burris Fk.	C	0.5	Mouth	34,44N,16W	Moniteau			x	x			B			
Burton Br.	C	2.0	Mouth	13,31N,10W	Texas			x	x			B			
Busch Cr.	C	2.0	Mouth	34,44N,1W	Franklin			x	x			B			
Trib. to Busch Cr.	C	1.5	Mouth	35,44N,1W	Franklin			x	x			B			
Trib. to Busch Cr.	C	2.0	Mouth	34,44N,1W	Franklin			x	x			B			
Butcher Br.	P	1.6	Mouth	12,40N,04E	Jefferson			x	x			B			
Butcher Cr.	C	1.0	Mouth	16,48N,1E	Lincoln			x	x			B			
Trib. to Butcher Cr.	C	1.0	Mouth	22,48N,1E	Lincoln			x	x			B			
Butler Cr.	P	3.5	Mouth	State Line	McDonald		x	x	x	x		/x/A			
Butter Cr.	C	4.0	State Line	17,21N,27W	Barry			x	x			B			
Bynum Cr.	C	4.5	Mouth	16,49N,9W	Callaway			x	x			B			
Byrd Cr.	P	12.0	Mouth	Sur 325,32N,12E	Cape Girardeau			x	x			B			
Byrd Cr.	C	1.5	Sur 325,32,12E	4,32N,12E	Cape Girardeau			x	x			B			
Trib. to Byrd Cr.	C	1.0	Mouth	Sur 2236,32N,12E	Cape Girardeau			x	x			B			
Cabanne Course	C	1.5	Mouth	3,37N,4E	St. Francois			x	x			B			
Cache R. Ditch	C	7.0	State Line	36,23N,7E	Butler		x	x	x			B			
Cadet Cr.	P	1.0	Mouth	34,44N,10W	Osage			x	x			B			
Cadet Cr.	C	1.0	34,44N,10W	34,43N,10W	Osage			x	x			B			
Cadet Cr.	P	2.0	Mouth	27,38N,3E	Washington			x	x			B			
Cahoonie Cr.	C	4.0	Mouth	9,36N,20W	Dallas			x	x			B			
Calico Cr.	/P/C	/2.5/4.0	Mouth	/36,40N,02E/02,39N,02E	Jefferson	Washington		x	x			/x/A			
/Calico Cr.	C	1.5	36,40N,02E	2,39N,2E	Washington			x	x/						
California Br.	C	2.5	Mouth	17,40N,1E	Franklin	Washington		x	x			B			
Callahan Cr.	C	11.5	Mouth	23,50N,14W	Boone			x	x			B			
Callaway Fk.	C	6.0	Mouth	1,45N,1E	St. Charles			x	x			B			
Calton Cr.	C	5.0	Mouth	16,25N,26W	Barry			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
LWW-Livestock & Wildlife Watering
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]		
												WBC	SCR	IND
Calumet Cr.	P	1.5	Mouth	18,53N,1E	Pike			x	x			B		
Calumet Cr.	C	4.0	18,53N,1E	26,53N,1W	Pike			x	x			B		
Calvey Cr.	P	3.0	Mouth	4,42N,2E	Franklin			x	x			B		
Calvey Cr.	C	4.0	4,42N,2E	13,42N,2E	Franklin			x	x			B		
Camp Br.	C	4.0	Mouth	27,48N,3W	Warren			x	x			B		
Camp Br.	C	13.0	Mouth	28,45N,30W	Johnson	Cass		x	x			B		
Camp Br.	C	6.0	Mouth	20,39N,29W	Bates			x	x			B		
Camp Br.	C	3.5	Mouth	35,29N,10W	Texas			x	x			B		
Camp Br.	C	4.3	Smithvle Lk	36,54N,32W	Clay			x	x			B		
Camp Br.	C	8.2	Mouth	24,45N,23W	Pettis			x	x			B		
Trib. to Camp Br.	C	0.7	Mouth	23,45N,22W	Pettis			x	x			B		
Trib. to Camp Br.	C	0.8	Mouth	24,45N,22W	Pettis			x	x			B		
Trib. to Camp Br.	C	0.3	Mouth	29,45N,22W	Pettis			x	x			B		
Camp Cr.	P	5.0	Mouth	26,49N,3W	Lincoln	Warren		x	x			B		
Camp Cr.	C	5.0	26,49N,3W	16,48N,3W	Warren			x	x			B		
Camp Cr.	C	3.5	Mouth	27,45N,22W	Pettis			x	x			B		
Camp Cr.	C	5.0	Mouth	24,50N,20W	Saline			x	x			B		
Camp Cr.	C	3.0	Mouth	23,38N,9W	Phelps			x	x			B		
Camp Cr.	C	1.0	Mouth	16,25N,21W	Christian			x	x			B		
Camp Cr.	P	5.5	Mouth	34,30N,4E	Wayne			x	x			B		
Camp Cr.	C	1.0	34,30N,4E	33,30N,4E	Wayne			x	x			B		
Camp Cr.	C	0.5	29,36N,06E	Hwy. EE	St. Francois			x	x			B		
Trib. to Camp Cr.	C	1.1	Mouth	Hwy. EE	St. Francois			x	x			B		
Campbell Br.	C	2.0	Mouth	7,48N,2E	Lincoln			x	x			B		
Campbell Cr.	C	3.0	Mouth	18,61N,30W	Gentry			x	x			B		
Campbell Cr.	C	5.5	Mouth	24,56N,23W	Livingston			x	x			B		
Cane Cr.	P	8.0	Mouth	Sur 3146,32N,12E	Cape Girardeau			x	x			B		
Cane Cr.	C	4.0	Sur 3146,32N,12E	Hwy. 55	Cape Girardeau			x	x			B		
Trib. to Cane Cr.	P	1.5	Mouth	Sur 2138,32N,12E	Cape Girardeau			x	x			B		
Cane Cr.	P	7.0	Mouth	6,29N,10E	Bollinger			x	x			B		
Cane Cr.	C	3.0	6,29N,10E	27,30N,9E	Bollinger			x	x			B		
Cane Cr.	C	3.0	Mouth	28,23N,18W	Taney			x	x	x		B		
Cane Cr.	C	6.0	26,22N,5E	36,23N,5E	Butler		x	x	x			B		
Cane Cr.	P	23.0	36,23N,5E	5,25N,5E	Butler		x	x	x	x		[x]/A	x	
Cane Cr.	C	15.0	5,25N,5E	15,26N,3E	Butler	Carter		x	x	x		[x]/A		
Trib. to Cane Cr.	C	1.0	Mouth	35,26N,4E	Butler			x	x			B		
Trib. to Cane Cr.	C	1.0	Mouth	10,26N,4E	Butler			x	x			B		
Trib. to Cane Cr.	C	1.0	Mouth	8,26N,4E	Butler			x	x			B		
Cane Cr. Ditch	P	7.0	State Line	36,23N,5E	Butler		x	x	x			B	x	
Caney Cr.	C	4.0	Mouth	12,24N,17W	Taney			x	x			[x]/A		
Caney Cr.	C	7.0	Mouth	5,23N,13W	Ozark			x	x			B		
Caney Cr.	C	11.5	9,28N,12E	36,29N,13E	Scott			x	x			B		
Cannon Br.	P	0.3	Mouth	17,36N,25W	St. Clair			x	x			B		
Cansy Fk.	P	5.0	Mouth	3,32N,11E	Cape Girardeau			x	x			B		
Cansy Fk.	C	4.0	3,32N,11E	28,33N,11E	Cape Girardeau			x	x			B		
Cantrell Cr.	P	7.0	Mouth	/28/07,30N,16W	Webster			x	x			B		
Cantrell Cr.	C	6.0	/28/07,30N,16W	32,30N,16W	Webster			x	x			B		
Cape Cr.	P	1.0	Mouth	22,33N,8E	Madison			x	x			B		
Cape Cr.	C	0.5	22,33N,8E	22,33N,8E	Madison			x	x			B		
Cape La Croix Cr.	P	8.5	Mouth	23,31N,13E	Cape Girardeau			x	x			B		
Cape La Croix Cr.	C	1.0	23,31N,13E	11,31N,13E	Cape Girardeau			x	x			B		
Capps Cr.	P	4.0	Mouth	17,25N,28W	Newton	Barry	x	x	x		x	[x]/A	x	
Trib. to Capps Cr.	P	1.0	Mouth	14,25N,29W	Newton			x	x			B		
Captain Cr.	C	1.0	Mouth	24,32N,5E	Madison			x	x			B		
Carney Cr.	C	4.0	Mouth	3,24N,25W	Barry			x	x			B		
Carroll Cr.	C	9.4	Mouth	04,53N,30W	Clay			x	x			B		
Carter Cr.	C	1.0	Mouth	5,39N,2W	Crawford			x	x			B		
Carter Cr.	C	5.5	Mouth	4,27N,1E	Carter			x	x			B		
Carver Br.	P	2.0	Mouth	13,26N,32W	Newton			x	x			[x]/A		

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IRR LWW AQL CLF CDF WBC SCR DWS IND

TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Carver Cr.	C	3.0	Mouth	33,43N,21W	Benton			x	x			B			
Carver Cr.	P	1.0	Mouth	28,32N,3E	Iron			x	x			B			
Carver Cr.	C	3.0	28,32N,3E	16,32N,3E	Iron			x	x			B			
Casmer Br.	C	1.5	Mouth	12,48N,2W	Lincoln			x	x			B			
Cason Br.	C	2.5	Mouth	21,45N,10W	Callaway			x	x			B			
Castile Cr.	C	32.0	Mouth	24,58N,32W	Buchanan	Dekalb		x	x			B	x	x	
Trib. to Castile Cr.	C	1.0	Mouth	3,56N,32W	Clinton			x	x			B			
Casto Cr.	C	3.5	Mouth	14,27N,16W	Douglas			x	x			B			
Castor R.	P	45.5	Mouth	31,28N,10E	Stoddard			x	x			B			
Castor R.	C	10.5	31,28N,10E	12,28N,9E	Stoddard	Bollinger		x	x			B			
Castor R.	P	6.5	12,28N,9E	29,29N,9E	Bollinger		x	x	x			/x/A	x		
Castor R.	P	59.5	29,29N,9E	19,34N,8E	Bollinger	Madison		x	x	x		/x/A	x		
Castor R.	C	2.0	19,34N,8E	7,34N,8E	Madison	St. Francois		x	x			B			
Trib. to Castor R.	P	1.5	Mouth	5,28N,9E	Bollinger			x	x			B			
Trib. to Castor R.	C	0.5	5,28N,9E	Hwy. 51	Bollinger			x	x			B			
Trib. to Castor R.	P	3.0	Mouth	23,34N,7E	Madison			x	x			B			
Trib. to Castor R.	C	1.0	Mouth	25,34N,7E	Madison			x	x			B			
Trib. to Castor R.	C	1.5	Mouth	16,28N,10E	Bollinger	Stoddard		x	x			B			
Castor R. Div. Chan.	P	13.0	4,29N,11E	12,28N,9E	Cape Girardeau	Bollinger		x	x			/x/A	x	x	
Castro Valley	C	4.0	Mouth	1,29N,6W	Shannon			x	x			B			
Cat Hollow	C	2.0	Mouth	33,35N,18W	Dallas			x	x			B			
Cathcart Hollow	C	1.6	Mouth	20,31N,09W	Texas			x	x			B			
Cato Slough	P	1.5	Mouth	2,27N,9E	Stoddard			x	x			B			
Cato Slough	C	4.0	2,27N,9E	15,28N,9E	Bollinger		x	x	x			B			
Cave Br.	C	2.0	30,36N,26W	13,36N,26W	Cedar			x	x			B			
Cave Cr.	C	3.0	Mouth	14,34N,18W	Dallas			x	x			B			
Cave Spring Br.	C	1.0	16,28N,29W	21,28N,29W	Jasper			x	x			B			
Cave Fk. Cr.	C	3.0	Mouth	10,24N,1W	Ripley			x	x			B			
Cave Spring Cr.	C	1.0	Mouth	5,43N,33W	Cass			x	x			B			
Cave Spring Hollow	C	1.5	Mouth	12,29N,2E	Reynolds			x	x			B			
Cedar Bottom Cr.	P	3.5	Mouth	32,33N,6E	Madison			x	x			B			
Cedar Bottom Cr.	C	3.0	32,33N,6E	10,32N,6E	Madison			x	x			B			
Cedar Br.	P	3.0	Mouth	16,31N,10E	Bollinger			x	x			B			
Cedar Br.	C	2.0	16,31N,10E	8,31N,10E	Bollinger			x	x			B			
Cedar Cr.	P	14.0	Mouth	21,46N,11W	Callaway			x	x			B	x		
Cedar Cr.	C	33.0	21,46N,11W	3,49N,11W	Callaway			x	x			B			
Trib. to Cedar Cr.	C	0.5	Mouth	32,46N,11W	Callaway			x	x			B			
Trib. to Cedar Cr.	C	1.5	Mouth	14,49N,11W	Callaway			x	x			B			
Cedar Cr.	P	8.0	Mouth	Hwy. 100	Osage			x	x			B	x		
Cedar Cr.	C	4.5	Hwy. 100	3,43N,8W	Osage			x	x			B			
Cedar Cr.	C	4.9	Mouth	34,40N,08W	Maries			x	x			B			
Cedar Cr.	C	5.1	Mouth	12,47N,32W	Jackson			x	x			B			
Cedar Cr.	C	3.0	Mouth	26,46N,21W	Pettis			x	x			B			
Cedar Cr.	P	27.0	Mouth	20,34N,27W	Cedar		x	x	x			/x/A	x		
Cedar Cr.	C	16.5	20,34N,27W	10,32N,28W	Cedar	Dade		x	x			B			
Cedar Cr.	C	2.0	Mouth	15,42N,6W	Gasconade			x	x			B			
Cedar Cr.	P	10.0	Mouth	Hwy. 32	Washington	Iron		x	x			/x/A			
Cedar Cr.	C	2.0	Hwy. 32	32,35N,2E	Iron			x	x			B			
Trib. to Cedar Cr.	C	1.0	Mouth	3,34N,2E	Iron			x	x			B			
Cedar Cr.	C	1.0	2,22N,19W	6,22N,18W	Taney			x	x			B			
Cedar Cr.	P	6.5	Mouth	11,30N,6E	Wayne			x	x			B			
Cedar Cr.	P	2.5	Mouth	28,26N,32W	Newton			x	x			B			
Cedar Fk.	P	4.0	Mouth	9,35N,9E	Perry			x	x			B			
Cedar Fk.	C	1.0	9,35N,9E	16,35N,9E	Perry			x	x			B			
Cedar Fk.	C	9.0	Mouth	18,43N,3W	Franklin			x	x			B			
Center Cr.	P	26.0	14,28N,34W	34,28N,31W	Jasper		x	x	x	x		/x/A	x		x
Center Cr.	P	22.0	34,28N,31W	23,27N,29W	Jasper	Newton	x	x	x			/x/A	x		x
Center Cr.	P	3.0	23,27N,29W	17,27N,28W	Newton	Lawrence	x	x	x		x	/x/A	x		x
Center Cr.	P	4.0	17,27N,29W	26,27N,28W	Lawrence			x	x			/x/A			
Trib. to Center Cr.	C	1.0	Mouth	21,27N,29W	Newton			x	x			B			
Chaney Br.	C	3.0	Mouth	6,32N,28W	Barton	Dade		x	x			B			
Chapel Cr.	C	2.0	Mouth	Sur 2149,33N,6E	Madison			x	x			B			

[BTG]

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Chapman Br.	C	1.5	Mouth	33,64N,32W	Gentry			x	x			B			
Chariton R.	P	110.0	Mouth	State Line	Chariton	Putnam	x	x	x			[x]/A	x		
Old Chan. Chariton R.	C	7.5	24,65N,16W	34,66N,16W	Putnam	Schuyler		x	x			B			
Old Chan. Chariton R.	C	2.0	Mouth	32,56N,16W	Chariton			x	x			B			
Old Chan. Chariton R.	P	14.5	Mouth	9,52N,18W	Chariton			x	x			B			
Old Chan. Chariton R.	C	11.0	9,52N,18W	29,53N,18W	Chariton			x	x			B			
Trib. to Chariton R.	C	1.5	Mouth	33,66N,16W	Putnam			x	x			B			
Charleton Hollow	P	0.5	5,23N,33W	4,23N,33W	McDonald			x	x			B			
Charrette Cr.	P	10.5	Mouth	14,45N,2W	Warren			x	x			[x]/A			
Charrette Cr.	P	6.0	14,45N,2W	24,46N,2W	Warren			x	x			[x]/A			
Charrette Cr.	C	5.0	24,46N,2W	9,46N,1W	Warren			x	x			B			
Cheese Cr.	C	5.6	Mouth	09,43N,21W	Pettis	Benton		x	x			B			
Cherry Valley Cr.	C	3.0	Mouth	10,37N,3W	Crawford			x	x			B			
Trib. to															
Cherry Valley Cr.	C	1.2	Mouth	Hwy.BB	Crawford			x	x			B			
Chesapeake Cr.	P	3.0	Mouth	29,28N,25W	Lawrence			x	x		x	B			
Cicero Cr.	P	1.0	Mouth	9,38N,1W	Washington			x	x			B			
Cinque Hommes Cr.	P	20.0	Mouth	Hwy. 51	Perry			x	x			B			
Cinque Hommes Cr.	C	2.0	Hwy. 51	36,35N,10E	Perry			x	x			B			
Clabber Cr.	C	3.0	Mouth	14,45N,9W	Callaway			x	x			B			
Clammer Br.	C	1.0	Mouth	8,38N,27W	St. Clair			x	x			B			
Clark Br.	C	8.0	Mouth	29,56N,18W	Chariton			x	x			B			
Clark Cr.	P	4.5	Mouth	12,29N,14W	Wright			x	x			B			
Clark Cr.	C	2.0	12,29N,14W	3,28N,14W	Wright			x	x			B			
Clark Cr.	P	10.0	Mouth	20,29N,4E	Wayne			x	x		x	B			
Clark Cr.	C	1.5	20,29N,4E	29,29N,4E	Wayne			x	x			B			
Clark Fk.	C	7.0	Mouth	15,47N,16W	Cooper			x	x			B			
Trib. to Clark Fk.	C	0.5	Mouth	15,47N,16W	Cooper			x	x			B			
Clark Fk.	P	1.0	Mouth	15,43N,13W	Cole			x	x			B			
Clark Fk.	C	6.0	15,43N,13W	34,43N,13W	Cole			x	x			B			
Clayton Br.	P	2.0	Mouth	20,34N,1E	Iron			x	x			B			
Clayton Br.	C	1.0	20,34N,1E	18,34N,1E	Iron			x	x			B			
Clayton Hollow	C	1.0	Mouth	3,24N,18W	Taney			x	x			B			
Clear Cr.	C	3.0	Mouth	10,57N,5W	Marion			x	x			B			
Clear Cr.	C	5.0	Mouth	27,56N,10W	Monroe			x	x			B			
Clear Cr.	C	12.0	Mouth	State Line	Nodaway			x	x			B			
Clear Cr.	P	4.0	Mouth	Hwy. 92	Clay			x	x			B			
Clear Cr.	C	13.5	Hwy. 92	09,54N,31W	Clinton			x	x			B			
Trib. to Clear Cr.	C	2.0	Mouth	15,54N,31W	Clinton			x	x			B			
Clear Cr.	C	6.0	Mouth	25,59N,26W	Daviess			x	x			B			
Clear Cr.	C	5.5	Mouth	22,47N,19W	Cooper			x	x			B			
Clear Cr.	C	4.3	Mouth	27,42N,23W	Benton			x	x			B			
Trib. to Clear Cr.	C	0.6	Mouth	28,42N,23W	Benton			x	x			B			
Clear Cr.	C	4.0	Mouth	11,44N,30W	Cass			x	x			B			
Clear Cr.	P	15.5	7,37N,27W	10,35N,29W	St. Clair	Vernon		x	x			[x]/A			
Clear Cr.	C	15.0	10,35N,29W	16,34N,30W	Vernon			x	x			B			
Trib. to Clear Cr.	C	1.5	Mouth	05,34N,30W	Vernon			x	x			B			
Trib. to Clear Cr.	C	1.3	Mouth	32,34W,30W	Vernon			x	x			B			
Clear Cr.	P	15.0	Mouth	4,29N,23W	Greene			x	x			B			
Clear Cr.	C	4.0	Mouth	5,47N,5W	Montgomery			x	x			B			
Clear Cr.	C	2.5	Mouth	36,49N,6W	Montgomery			x	x			B			
Clear Cr.	C	2.0	Mouth	16,37N,1W	Washington			x	x			B			
Clear Cr.	C	2.0	Mouth	16,39N,6W	Phelps			x	x			B			
Clear Cr.	C	5.0	Mouth	17,39N,2E	Washington			x	x			B			
Clear Cr.	P	4.0	Mouth	19,36N,2E	Washington			x	x			B			
Clear Cr.	C	2.0	19,36N,2E	13,36N,1E	Washington			x	x			B			
Trib. to Clear Cr.	C	1.0	Mouth	21,36N,2E	Washington			x	x			B			
Trib. to Clear Cr.	C	1.6	Mouth	26,39N,06W	Phelps			x	x			B			
Trib. to Clear Cr.	C	0.4	Mouth	14,44N,25W	Johnson			x	x			B			
Clear Cr.	P	9.0	Mouth	28,26N,28W	Newton	Lawrence		x	x			B			
Clear Cr.	C	2.0	28,26N,28W	36,26N,28W	Lawrence	Barry		x	x			B			
Clear Fk.	P	24.5	Mouth	35,45N,25W	Johnson			x	x			B			

[BTG]

IRR Irrigation LWW Livestock & Wildlife Watering CLF Cool Water Fishery CDF Cold Water Fishery [BTG-Boating and Canoeing] SCR Secondary Contact Recreation DWS Drinking Water Supply

IRR-Irrigation
LWW-Livestock & Wildlife Watering

CLF-Cool Water Fishery
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Clear Fk.	C	9.4	35,45N,25W	18,44N,24	Johnson			x	x			B			
Clear Fk.	C	1.5	Mouth	32,42N,6W	Gasconade			x	x			B			
Trib. to Clear Fk.	C	1.6	Mouth	04,44N,25W	Johnson			x	x			B			
Trib. to Clear Fk.	C	0.8	Mouth	15,44N,25W	Johnson			x	x			B			
Clear Spring	P	0.1	Mouth	19,28N,08W	Texas			x	x			B			
Cliffy Br.	C	2.0	Mouth	36,44N,15W	Moniteau			x	x			B			
Clifton Cr.	C	5.0	Mouth	10,45N,11W	Callaway			x	x			B			
Clifty Cr.	C	11.0	Mouth	16,27N,12W	Douglas			x	x			B			
Clifty Hollow Cr.	C	2.9	Mouth	11,38N,10W	Maries			x	x			B			
Clubb Cr.	P	3.0	Mouth	2,29N,9E	Bollinger		x	x	x			B			
Clubb Cr.	C	2.5	2,29N,9E	33,30N,9E	Bollinger			x	x			B			
Coakley Hollow	C	1.0	Mouth	9,38N,15W	Camden			x	x			B			
Coal Cr.	C	2.0	Mouth	1,65N,26W	Harrison			x	x			B			
Coal Cr.	P	3.0	Mouth	35,42N,26W	Henry			x	x			B			
Coates Br.	P	3.0	Mouth	36,32N,24W	Polk			x	x			B			
Coatney Cr.	P	2.0	Mouth	15,36N,19W	Dallas			x	x			B			
Cobb Cr.	P	1.5	Mouth	21,33N,14W	Laclede			x	x			B			
Cobb Cr.	C	1.5	21,33N,14W	32,33N,14W	Laclede			x	x			B			
Coffman Hollow	C	1.0	Mouth	14,37N,1W	Washington			x	x			B			
Coldwater Cr.	C	3.0	34,44N,31N	8,43N,33W	Cass			x	x			B			
Coldwater Cr.	C	5.5	Mouth	Hwy. 67	St. Louis			x	x			B			x
Coldwater Cr.	P	4.5	Mouth	27,35N,8E	Ste. Genevieve			x	x			B			
Coldwater Cr.	C	0.5	27,35N,8E	33,35N,8E	Ste. Genevieve			x	x			B			
Cole Camp Cr.	P	16.4	Mouth	/08/07,42N,21W	Benton			x	x	x		B			
Cole Camp Cr.	C	4.3	/08/07,42N,21W	27,43N,21W	Benton			x	x			B			
Cole Cr.	C	5.0	Mouth	Hwy. 70	St. Charles			x	x			B			
Cole Cr.	C	2.0	Mouth	17,51N,14W	Howard			x	x			B			
Cole Cr.	C	1.5	Mouth	4,45N,5W	Gasconade			x	x			B			
Collier Cr.	C	2.5	Mouth	18,45N,8W	Callaway			x	x			B			
Collier Cr.	C	1.5	Mouth	10,30N,5E	Wayne			x	x			B			
Compton Br.	C	1.0	Mouth	16,36N,1E	Washington			x	x			B			
Comstock Cr.	P	1.0	Mouth	34,34N,33W	Vernon			x	x			B			
Comstock Cr.	C	5.0	34,34N,33W	8,33N,32W	Barton			x	x			B			
Conn Cr.	C	2.0	20,37N,14W	22,37N,14W	Camden			x	x			B			
Connor Cr.	C	5.0	Mouth	32,47N,11W	Boone			x	x			B			
Conrad Cr.	P	3.5	Mouth	5,33N,9E	Bollinger			x	x			B			
Conrad Cr.	C	1.5	5,33N,9E	1,33N,8E	Bollinger			x	x			B			
Contrary Cr.	C	10.0	Mouth	30,56N,35W	Buchanan			x	x			B			
Contrary Cr.	P	1.5	Mouth	13,43N,7W	Osage			x	x			B			
Contrary Cr.	C	3.5	13,43N,7W	9,43N,7W	Osage			x	x			B			
Cook Hollow	C	2.0	Mouth	35,25N,21W	Christian			x	x			B			
Coon Cr.	C	9.0	Mouth	8,53N,13W	Monroe	Randolph		x	x			B			
Trib. to Coon Cr.	C	1.0	Mouth	32,54N,13W	Randolph			x	x			B			
Coon Cr.	C	13.0	Mouth	10,50N,6W	Montgomery			x	x			B			
Coon Cr.	C	9.0	Mouth	Hwy. 47	Lincoln			x	x			B			
Coon Cr.	C	3.0	Mouth	24,51N,14W	Boone			x	x			B			
Coon Cr.	P	1.5	Mouth	22,30N,14W	Wright			x	x			B			
Coon Cr.	C	0.5	22,30N,14W	17,30N,14W	Wright			x	x			B			
Coon Cr.	C	5.4	Mouth	24,22N,21W	Taney			x	x			B			
Coon Cr.	C	7.0	Mouth	14,30N,30W	Barton	Jasper		x	x			B			
Coon Cr.	C	8.0	Mouth	5,29N,28W	Dade	Lawrence		x	x			B			
Coon Cr.	C	4.9	Mouth	16,45N,22W	Pettis			x	x			B			
Trib to Coon Cr.	C	0.5	Mouth	11,45N,22W	Pettis			x	x			B			
Trib to Coon Cr.	C	1.4	Mouth	12,45N,22W	Pettis			x	x			B			
Coon Hollow	C	3.0	Mouth	14,28N,07W	Texas			x	x			B			
Cooney Cr.	C	0.8	Mouth	11,40N,20W	Benton			x	x			B			
Coonville Cr.	C	1.0	Mouth	25,38N,4E	St. Francois			x	x			B			
Cooper Cr.	P	0.4	Mouth	07,22N,21W	Taney			x	x			B			
Cooper Cr.	C	1.6	06,22N,21W	07,22N,21W	Taney			x	x			B			
Coopers Cr.	C	6.5	Mouth	6,39N,26W	Henry	St. Clair		x	x			B			
Trib. to Coopers Cr.	C	2.0	Mouth	4,39N,26W	St. Clair			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
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WBC-Whole Body Contact Recreation

[BTG-Boating and Canoeing] SCR-Secondary Contact Recreation
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[BTG]

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Trib. to Crooked Cr.	C	1.0	Mouth	32,30N,11E	Cape Girardeau			x	x			B			
Trib. to Crooked Cr.	C	1.0	Mouth	14,30N,10E	Bollinger			x	x			B			
Crooked R.	P	53.5	Mouth	3,54N,29W	Ray			x	x			B			
Crooked R.	C	6.5	3,54N,29W	25,55N,30W	Caldwell	Clinton		x	x			B			
Crossville Br.	C	2.0	26,33N,3W	28,33N,3W	Reynolds			x	x			B			
Crows Cr.	C	1.5	Mouth	3,39N,2W	Crawford			x	x			B			
Crows Fork Cr.	C	11.0	Mouth	35,48N,9W	Callaway			x	x			B			
Cub Cr.	P	6.0	Mouth	13,35N,1W	Washington			x	x			B			
Cub Cr.	C	1.0	13,35N,1W	18,35N,1E	Washington			x	x			B			
Cuivre R.	P1	9.0	Mouth	Hwy. 79	St. Charles			x	x			B		x	
Cuivre R.	P	35.0	Hwy. 79	11,49N,1W	St. Charles	Lincoln		x	x			/x/A		x	
Current R.	P	118.0	State Line	24,31N,6W	Ripley	Shannon	x	x	x	x		/x/A		x	
Current R.	P	19.0	24,31N,6W	Montauk Spring	Shannon	Dent		x	x		x	/x/A		x	
Cypress Cr.	C	13.0	Mouth	18,62N,27W	Daviess	Harrison		x	x			B			
Cypress Cr.	C	3.0	Mouth	24,23N,3E	Ripley			x	x			B			
Cypress Ditch #1	C	9.0	State Line	1,22N,4E	Ripley			x	x			B			
Cypress Ditch Lat.	P	8.0	Mouth	20,25N,9E	Stoddard			x	x			B			
Cypress Ditch Lat.	C	6.0	20,25N,9E	29,26N,9E	Stoddard			x	x			B			
Dan R.	C	2.5	32,23N,7E	20,23N,7E	Butler			x	x			B			
Dardenne Cr.	P1	7.0	Mouth	Sur 1704,47N,4E	St. Charles			x	x			B		x	
Dardenne Cr.	P	15.0	Sur 1704,47N,4E	22,46N,2E	St. Charles			x	x			B		x	
Dardenne Cr.	C	6.0	22,46N,2E	22,46N,1E	St. Charles			x	x			B			
Dark Cr.	C	8.0	Mouth	34,55N,15W	Randolph			x	x			B			
Darrow Br.	C	1.0	Mouth	1,44N,9W	Osage			x	x			B			
Davis Br.	C	4.0	Mouth	2,28N,18W	Webster			x	x			B			
Davis Cr.	C	5.0	Mouth	30,51N,9W	Audrain			x	x			B			
Davis Cr.	P	3.5	6,61N,38W	21,62N,38W	Holt			x	x			B			
Trib. to Davis Cr.	C	3.0	Mouth	3,61N,38W	Holt			x	x			B			
Davis Cr.	P	25.0	Mouth	8,48N,26W	Saline	Lafayette		x	x			B			
Davis Cr.	C	11.4	8,48N,27W	07,48N,26W	Lafayette			x	x			B			
Davis Cr.	C	2.5	Mouth	6,34N,22W	Polk			x	x			B			
Davis Cr.	P	1.0	Mouth	12,29N,20W	Greene			x	x			B			
Davis Cr.	C	3.0	12,29N,20W	2,29N,20W	Greene			x	x			B			
Trib. to Davis Cr.	C	1.0	Mouth	1,29N,20W	Greene			x	x			B			
Davis Cr.	C	4.0	Mouth	13,23N,10W	Howell			x	x			B			
Davis Cr. Ditch	C	6.5	Mouth	6,61N,38W	Holt			x	x			B			
Davis Hollow	C	3.5	Mouth	29,22N,26W	Barry			x	x			/x/A			
Davisville Hollow	C	2.0	Mouth	31,36N,2W	Crawford			x	x			B			
Day Hollow	C	1.0	Mouth	36,39N,1W	Washington			x	x			B			
Dead Oak Cr.	C	1.0	Mouth	2,55N,26W	Caldwell			x	x			B			
Deane Cr.	P	1.5	Mouth	17,38N,14W	Miller			x	x			/x/A		x	
Deane Cr.	C	2.0	20,38N,14W	29,38N,14W	Camden			x	x			B			
Deberry Cr.	C	0.5	Mouth	26,37N,14W	Camden			x	x			B			
Decker Br.	C	1.9	Mouth	35,36N,22W	Hickory			x	x			B			
Deepwater Cr.	C	8.0	Mouth	Montrose Lk Dam	Henry			x	x			B			
Deepwater Cr.	C	12.0	35,41N,28W	18,40N,29W	Henry	Bates		x	x			B			
Deer Cr.	P	0.5	Mouth	Hwy. 100	Osage			x	x			B			
Deer Cr.	C	4.0	Hwy. 100	34,45N,8W	Osage			x	x			B			
Trib. to Deer Cr.	C	1.9	33,45N,08W	04,44N,08W	Osage			x	x			B			
Trib. to Deer Cr.	P	1.0	Mouth	33,45N,08W	Osage			x	x			B			
Deer Cr.	P	11.7	Mouth	21,39N,20W	Benton			x	x	x		B			
Deer Cr.	C	2.3	21,39N,20W	03,38N,20W	Benton	Hickory		x	x			B			
Trib. to Deer Cr.	P	0.3	Mouth	06,39N,20W	Benton			x	x			B			
Trib. to Deer Cr.	P	0.6	Mouth	28,40N,20W	Benton			x	x			B			
Deer Cr.	C	0.5	Mouth	12,41N,26W	Henry			x	x			B			
Deer Cr.	P	4.0	Mouth	4,32N,21W	Polk			x	x			B			
Dent Br.	C	1.0	Mouth	Sur 2374,36N,2E	Washington			x	x			B			
Des Moines R.	P	29.0	Mouth	State Line	Clark			x	x			/x/A		x	
Devils Den Hollow	C	1.0	Mouth	2,33N,4E	Iron			x	x			B			
Dew Pond Hollow	C	3.2	Mouth	15,30N,07W	Texas			x	x			B			

[BTG]

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Dickerson Cr.	C	1.5	Mouth	Binder Lake Dam	Cole			x	x			B			
Dicks Cr.	C	7.0	Mouth	33,54N,33W	Platte			x	x			B			
Dicks Fk.	C	2.0	Mouth	28,32N,31W	Barton			x	x			B			
Dicky Cr.	C	0.5	Mouth	14,26N,15W	Douglas			x	x			B			
Dillard Cr.	P	1.5	Mouth	22,31N,11E	Cape Girardeau			x	x			B			
Dillard Cr.	C	1.0	22,31N,11E	16,31N,11E	Cape Girardeau			x	x			B			
Trib. to Dillard Cr.	C	1.5	Mouth	20,31N,11E	Cape Girardeau			x	x			B			
Dillon Cr.	C	4.0	Mouth	33,59N,35W	Andrew			x	x			B			
Dirt House Hollow	C	1.9	Mouth	28,29N,07W	Texas			x	x			B			
Ditch #1	C	10.0	Mouth	20,23N,9E	Dunklin			x	x			B			
Ditch to Ditch #1	C	1.0	Mouth	28,23N,9E	Dunklin			x	x			B			
Ditch #1	P	6.0	13,27N,8E	19,28N,9E	Stoddard	Bollinger		x	x			B			
Ditch #1	C	2.0	19,28N,9E	16,28N,9E	Bollinger			x	x			B			
Ditch #1	P	2.5	30,16N,10E	17,16N,10E	Dunklin			x	x			B			
Ditch #1	C	3.0	15,27N,13E	4,27N,13E	Scott			x	x			B			
Ditch #1	P	17.0	3,24N,13E	15,27N,13E	New Madrid	Scott		x	x			B			
Ditch #1	P	86.0	State Line	27,29N,12E	Dunklin	Scott	x	x	x			B	x		
Ditch #1	C	4.0	27,29N,12E	12,29N,12E	Scott		x	x	x			B	x		
Ditch to Ditch #1	P	6.0	Mouth	16,29N,12E	Scott	Cape Girardeau		x	x			B			
Ditch to Ditch #1	P	6.0	Mouth	33,30N,12E	Scott	Cape Girardeau		x	x			B			
Ditch to Ditch #1	C	4.5	Mouth	34,30N,12E	Scott	Cape Girardeau		x	x			B			
Ditch #1	P	6.0	Mouth	16,21N,9E	Dunklin			x	x			B			
Ditch #1	C	3.0	16,21N,9E	6,21N,9E	Dunklin			x	x			B			
Ditch #10	P	3.5	32,27N,8E	17,27N,8E	Stoddard	Wayne		x	x			B			
Ditch #10	C	2.5	17,27N,8E	4,27N,8E	Wayne			x	x			B			
Ditch #10	C	2.5	20,23N,15E	5,23N,15E	New Madrid			x	x			B			
Ditch #101	C	3.0	Mouth	19,28N,10E	Bollinger			x	x			B			
Ditch to Ditch #101	C	2.0	Mouth	13,28N,9E	Bollinger			x	x			B			
Ditch #104	C	12.5	Mouth	13,25N,13E	New Madrid			x	x			B			
Ditch #11	P	6.0	32,27N,8E	13,27N,8E	Stoddard			x	x			B			
Ditch #110	C	2.5	5,28N,11E	20,29N,11E	Stoddard	Cape Girardeau		x	x			B			
Ditch #17	C	7.0	Mouth	31,28N,11E	Stoddard			x	x			B			
Ditch #2	P	2.0	State Line	30,22N,4E	Ripley			x	x			B			
Ditch #2	C	8.0	30,22N,4E	2,22N,4E	Ripley			x	x			B			
Ditch to Ditch #2	P	1.5	Mouth	24,22N,3E	Ripley			x	x			B			
Ditch #2	P	4.5	Mouth	35,28N,8E	Stoddard	Wayne		x	x			B			
Ditch #2	C	4.0	23,17N,12E	36,18N,12E	Pemiscot			x	x			B			
Ditch #2	P	17.0	11,20N,10E	24,23N,10E	New Madrid			x	x			B			
Ditch #22	C	7.0	Mouth	11,23N,8E	Butler			x	x			B			
Ditch #23	C	6.0	Mouth	34,24N,8E	Butler			x	x			B			
Ditch #24	P	12.0	23,26N,12E	6,27N,12E	Stoddard			x	x			B			
Ditch #24	C	3.0	6,27N,12E	22,28N,11E	Stoddard			x	x			B			
Ditch #25	P	1.0	15,28N,11E	9,28N,11E	Stoddard			x	x			B			
Ditch #25	C	2.5	9,28N,11E	5,28N,11E	Stoddard			x	x			B			
Ditch #251	P	44.0	State Line	26,22N,12E	Dunklin	New Madrid		x	x			B	x		
Ditch #258	P	10.0	27,19N,10E	9,20N,11E	Dunklin	Pemiscot		x	x			B	x		
Ditch #258	C	5.0	9,20N,11E	25,21N,11E	New Madrid			x	x			B			
Ditch #259	P	26.0	State Line	31,20N,11E	Dunklin	Pemiscot		x	x			B	x		
Ditch #26	P	3.0	Mouth	33,29N,11E	Stoddard	Cape Girardeau		x	x			B			
Ditch #26	C	1.0	33,29N,11E	28,29N,11E	Cape Girardeau			x	x			B			
Ditch #27	P	4.5	15,28N,11E	22,29N,11E	Stoddard	Cape Girardeau		x	x			B			
Ditch #287	P	5.0	6,27N,11E	15,28N,11E	Stoddard			x	x			B			
Ditch #290	P	10.0	19,20N,11E	12,21N,11E	Dunklin	New Madrid		x	x			B			
Ditch #290	C	5.0	12,21N,11E	21,22N,12E	New Madrid			x	x			B			
Ditch #293	P	2.0	19,20N,11E	12,20N,10E	Pemiscot			x	x			B			
Ditch #3	P	2.0	4,18N,9E	28,19N,9E	Dunklin			x	x			B			
Ditch #3	C	0.5	28,19N,9E	27,19N,9E	Dunklin			x	x			B			
Ditch #3	C	1.5	14,27N,8E	11,27N,8E	Stoddard			x	x			B			
Ditch #3	P	7.5	6,16N,12E	4,17N,12E	Pemiscot			x	x			B			
Ditch to Ditch #3	P	2.0	Mouth	30,17N,12E	Pemiscot			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
LWW-Livestock & Wildlife Watering
AQL-Protection of Warm Water Aquatic Life

CLF-Cool Water Fishery
CDF-Cold Water Fishery
WBC-Whole Body Contact Recreation

[BTG-Boating and Canoeing] SCR-Secondary Contact Recreation
DWS-Drinking Water Supply
IND-Industrial

TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Ditch #3	P	19.0	12,20N,10E	6,23N,11E	New Madrid	Stoddard		x	x			B			
Ditch #30	P	4.5	Mouth	1,27N,11E	Stoddard			x	x			B			
Ditch #33	P	11.0	Mouth	14,28N,11E	Stoddard			x	x			B			
Ditch #33	C	2.0	14,28N,11E	2,28N,11E	Stoddard			x	x			B			
Ditch #34	C	4.5	Mouth	25,29N,11E	Stoddard	Cape Girardeau		x	x			B			
Ditch #34	C	9.0	Mouth	24,28N,12E	Stoddard			x	x			B			
Ditch #35	C	9.0	Mouth	3,27N,12E	Stoddard			x	x			B			
Ditch #36	P	7.0	Mouth	21,19N,10E	Dunklin			x	x			B			
Ditch #36	C	2.0	21,19N,10E	9,19N,10E	Dunklin			x	x			B			
Ditch #4	C	1.5	22,27N,8E	11,27N,8E	Stoddard			x	x			B			
Ditch #4	C	3.0	4,17N,12E	20,18N,12E	Pemiscot			x	x			B			
Ditch #4	P	9.5	34,26N,13E	22,27N,13E	New Madrid	Scott		x	x			B			
Ditch #4	C	4.0	22,27N,13E	33,28N,13E	Scott			x	x			B			
Ditch #4	C	14.0	Mouth	6,22N,11E	Pemiscot	New Madrid		x	x			B			
Ditch #41	C	5.0	Mouth	28,23N,12E	New Madrid			x	x			B			
Ditch #42	C	18.5	Mouth	29,25N,12E	New Madrid	Stoddard		x	x			B			
Ditch #5	C	1.0	28,27N,8E	21,27N,8E	Stoddard			x	x			B			
Ditch to Ditch #5	C	2.0	Mouth	24,16N,11E	Pemiscot			x	x			B			
Ditch #5	P	2.0	12,16N,11E	6,16N,12E	Pemiscot			x	x			B			
Ditch #6	P	1.0	29,27N,8E	21,27N,8E	Stoddard			x	x			B			
Ditch #6	P	16.5	Mouth	15,18N,12E	Pemiscot			x	x			B			
Ditch #6	C	4.5	15,18N,12E	2,18N,12E	Pemiscot			x	x			B			
Ditch to Ditch #6	C	1.5	Mouth	29,18N,12E	Pemiscot			x	x			B			
Ditch #6	P	7.0	Mouth	16,22N,11E	New Madrid			x	x			B			
Ditch #6	C	22.0	16,22N,11E	26,26N,11E	New Madrid	Stoddard		x	x			B			
Ditch #66	C	2.0	Mouth	33,20N,11E	Pemiscot			x	x			B			
Ditch #66	P	25.0	State Line	1,19N,10E	Pemiscot			x	x			B			
Ditch #7	P	3.0	Mouth	22,16N,11E	Pemiscot			x	x			B			
Ditch #7	C	6.0	Mouth	15,22N,11E	New Madrid			x	x			B			
Ditch #79	P	9.5	9,16N,9E	28,18N,10E	Dunklin			x	x			B			
Ditch #8	C	20.5	12,21N,11E	1,24N,11E	New Madrid	Stoddard		x	x			B			
Ditch #80	P	0.5	8,16N,9E	9,16N,9E	Dunklin			x	x			B			
Ditch #81	P	24.0	State Line	11,19N,10E	Dunklin	Pemiscot		x	x			B			
Ditch #84	P	6.0	11,19N,10E	11,20N,10E	Pemiscot			x	x			B			
Ditch #9	P	6.0	17,20N,11E	22,21N,11E	Pemiscot	New Madrid		x	x			B			
Ditch #9	C	2.5	22,21N,11E	12,21N,11E	New Madrid			x	x			B			
Ditch Cr.	P	1.8	Mouth	12,40N,03E	Jefferson			x	x			/x/A			
Ditch to Buffalo Ditch	P	12.0	Mouth	2,18N,9E	Dunklin			x	x			B			
Ditch to Pike Cr.	C	3.0	Mouth	30,23N,6E	Butler			x	x			B			
Ditter Cr.	C	1.2	Mouth	03,41N,23W	Benton			x	x			B			
Doe Cr.	C	5.0	Mouth	4,50N,15W	Howard			x	x			B			
Doe Run Cr.	P	5.0	Mouth	27,35N,5E	St. Francois			x	x			B			
Doe Run Cr.	C	2.5	27,35N,5E	20,35N,5E	St. Francois			x	x			B			
Dog Cr.	C	5.0	Mouth	9,58N,28W	Daviess			x	x			B			
Dog Cr.	P	2.0	Mouth	12,40N,14W	Miller			x	x			B			
Dog Cr.	C	7.0	12,40N,14W	5,39N,14W	Miller			x	x			B			
Dog Hollow	C	2.0	Mouth	30,33N,14E	Cape Girardeau			x	x			B			
Dooling Cr.	P	1.5	Mouth	Hwy. 100	Osage			x	x			B			
Dooling Cr.	C	1.0	Hwy. 100	11,45N,8W	Osage			x	x			B			
Doolittle Cr.	C	2.3	Mouth	03,29N,12W	Texas			x	x			B			
Doss Br.	P	2.0	Mouth	17,38N,2W	Crawford			x	x			B			
Doss Br.	C	2.0	17,38N,2W	15,38N,2W	Crawford			x	x			B			
Double Br.	C	6.0	Mouth	19,39N,30W	Bates			x	x			B			
Douger Br.	C	4.5	Mouth	7,26N,25W	Lawrence			x	x			B			
Douglas Br.	C	4.3	Mouth	13,36N,32W	Vernon			x	x			B			
Dousinbury Cr.	P	3.5	Mouth	17,33N,18W	Dallas			x	x			B			
Dousinbury Cr.	C	2.0	17,33N,18W	15,33N,18W	Dallas			x	x			B			
Dove Cr.	C	2.0	Mouth	12,29N,13W	Wright			x	x			B			
Doxies Cr.	C	9.0	Mouth	5,51N,16W	Chariton	Howard		x	x			B			
Drunken Cr.	P	0.5	Mouth	1,30N,10E	Bollinger			x	x			B			
Drunken Cr.	C	1.5	1,30N,10E	Hwy. 34	Bollinger			x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Dry Auglaize Cr.	P	5.0	24,38N,15W	22,38N,15W	Camden			x	x			/x/A		x	
Dry Auglaize Cr.	C	32.0	22,38N,15W	8,35N,15W	Camden	Laclede		x	x			/x/A		x	
Dry Auglaize Cr.	P	7.0	8,35N,15W	2,34N,16W	Laclede			x	x			B			
Dry Bone Cr.	C	1.0	Mouth	20,30N,7W	Texas			x	x			B			
Dry Br.	C	2.0	Mouth	Sur 1710,51N,1W	Lincoln			x	x			B			
Dry Br.	C	4.0	Mouth	3,49N,2W	Lincoln			x	x			B			
Dry Br.	C	4.0	Mouth	6,28N,23W	Greene			x	x			B			
Dry Br.	P	2.0	6,28N,23W	7,28N,23W	Greene			x	x			B			
Dry Br.	C	5.0	Mouth	4,39N,1E	Washington			x	x			B			
Dry Br.	C	9.0	Mouth	8,29N,30W	Jasper			x	x			/x/A			
Dry Cr.	C	3.0	Mouth	11,48N,21W	Saline			x	x			B			
Dry Cr.	P	1.5	Mouth	27,39N,9W	Maries			x	x			B			
Dry Cr.	C	1.5	27,39N,9W	29,39N,9W	Maries			x	x			B			
Dry Cr.	P	4.0	Mouth	14,37N,3W	Crawford			x	x		x	/x/A			
Dry Cr.	C	8.0	14,37N,3W	16,36N,3W	Crawford			x	x			B			
Trib. to Dry Cr.	C	1.5	Mouth	36,37N,3W	Crawford			x	x			B			
Trib. to Dry Cr.	C	1.0	Mouth	15,36N,3W	Crawford			x	x			B			
Dry Cr.	C	1.0	Mouth	27,36N,4E	St. Francois			x	x			B			
Dry Cr.	C	3.0	Mouth	24,36N,3E	Washington			x	x			B			
Dry Cr.	P	7.5	Mouth	32,30N,10E	Bollinger			x	x			B			
Dry Cr.	C	3.0	32,30N,10E	24,30N,9E	Bollinger			x	x			B			
Dry Cr.	C	5.0	Mouth	12,24N,25W	Stone	Barry		x	x			B			
Dry Cr.	C	15.0	Mouth	8,25N,9W	Douglas	Howell		x	x			B			
Trib. to Dry Cr.	C	2.0	Mouth	10,25N,9W	Howell			x	x			B			
Trib. to Dry Cr.	C	4.5	Mouth	20,25N,9W	Howell			x	x			B			
Dry Cr.	C	1.5	Mouth	1,24N,13W	Ozark			x	x			B			
Dry Cr.	P	1.0	Mouth	9,28N,3E	Wayne			x	x			B			
Dry Cr.	C	2.0	9,28N,3E	32,29N,3E	Wayne			x	x			B			
Dry Cr.	C	4.5	Mouth	27,32N,6E	Madison			x	x			B			
Dry Cr.	P	8.2	Mouth	25,40N,03E	Jefferson			x	x			B			
Dry Fk.	C	2.0	Mouth	11,46N,11W	Callaway			x	x			B			
Dry Fk.	C	2.0	Mouth	20,50N,17W	Howard			x	x			B			
Dry Fk.	C	3.0	Mouth	28,45N,16W	Moniteau			x	x			B			
Dry Fk.	P	4.0	Mouth	35,47N,6W	Montgomery			x	x			B			
Dry Fk.	C	2.0	35,47N,6W	10,46N,6W	Montgomery			x	x			B			
Dry Fk.	C	2.0	Mouth	22,35N,9E	Perry			x	x			B			
Dry Fk.	C	2.5	Mouth	18,35N,12E	Perry			x	x			B			
Trib. to Dry Fork	C	1.2	Mouth	34,37N,07W	Phelps			x	x			B			
Trib. to Dry Fork	C	0.4	Mouth	27,38N,06W	Phelps			x	x			B			
Dry Fk. Cr.	P	7.0	Mouth	8,34N,23W	Polk			x	x			B			
Dry Fk. Cr.	C	1.0	8,34N,23W	8,34N,23W	Polk			x	x			B			
Dry Fk. Cr.	P	21.5	Mouth	22,37N,7W	Phelps		x	x	x			B			
Dry Fk. Cr.	C	24.0	22,37N,7W	20,35N,6W	Phelps	Dent		x	x			B			
Dry Fk. Cr.	P	4.0	20,35N,6W	29,35N,6W	Dent			x	x			B			
Dry Fk. Cr.	C	10.0	29,35N,6W	25,34N,7W	Dent			x	x			B			
Dry Fk. Cr.	P	13.0	Mouth	35,41N,6W	Gasconade			x	x			B			
Dry Fk. Cr.	C	13.0	25,41N,7W	6,39N,7W	Gasconade	Maries		x	x			B			
Dry Fk.	C	2.0	5,28N,27W	29,29N,27W	Lawrence			x	x			B			
Dry Hollow	C	5.5	34,22N,27W	31,22N,27W	Barry			x	x			B			
Dry Hollow	C	2.5	Mouth	34,24N,16W	Ozark			x	x			B			
Dry Hollow	C	0.5	15,28N,28W	22,28N,28W	Lawrence			x	x			B			
Dry Valley Br.	P	1.0	Mouth	26,27N,29W	Newton			x	x			B			
Dry Valley Br.	C	2.0	26,27N,29W	25,27N,29W	Newton	Lawrence		x	x			B			
Dry Valley Cr.	C	2.0	Mouth	1,34N,5W	Dent			x	x			B			
Drywood Cr.	P	25.0	Mouth	21,33N,33W	Vernon	Barton		x	x			B			
Dubois Cr.	P	2.0	Mouth	Hwy. 100	Franklin			x	x			B			
Dubois Cr.	C	4.0	Hwy. 100	Hwy. 47	Franklin			x	x			B			
Duck Cr.	C	5.5	Mouth	16,58N,14W	Macon			x	x			B			
Duck Cr.	C	3.4	Mouth	32,43N,23W	Henry	Benton		x	x			B			
Duck Cr.	C	5.0	Mouth	21,27N,9E	Stoddard			x	x			B			

[BTG]

IRR Irrigation LWW Livestock & Wildlife Watering AQL Protection of Warm Water Aquatic Life

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Dudley Main Ditch	P	7.0	Mouth	34,25N,9E	Stoddard			x	x			B			
Dudley Main Ditch	C	0.5	34,25N,9E	27,25N,9E	Stoddard			x	x			B			
Dulin Cr.	P	1.4	Mouth	09,42N,04E	Jefferson			x	x			B			
Duncan Cr.	C	2.0	Mouth	8,37N,33W	Vernon			x	x			B			
Duncan Cr.	C	2.5	Mouth	22,38N,10W	Phelps			x	x			B			
Dunlap Cr.	C	0.5	Mouth	13,47N,9W	Callaway			x	x			B			
Dunn Spring Cr.	C	2.0	Mouth	34,44N,1E	Franklin			x	x			B			
Trib. to Dunn Spring Cr.	C	1.5	Mouth	35,44N,1E	Franklin			x	x			B			
Duran Cr.	C	7.0	Mouth	02,41N,22W	Benton			x	x			B			
Durington Cr.	C	4.0	Mouth	06,34N,19W	Dallas			x	x			B			
Duskin Cr.	C	2.0	Mouth	13,32N,13E	Cape Girardeau			x	x			B			
Dutch Cr.	P	1.6	Mouth	27,42N,03E	Jefferson			x	x			B			
Dutchtown Ditch	P	10.0	Mouth	25,30N,12E	Cape Girardeau			x	x			B			
Dutro Carter Cr.	P	1.5	Mouth	Hwy. 72	Phelps			x	x			B			
Dutro Carter Cr.	C	0.5	Hwy. 72	Hwy. O	Phelps			x	x			B			
Duval Cr.	C	7.0	Mouth	13,30N,32W	Jasper			x	x			B			
Dyer Rock Cr.	C	5.9	Mouth	03,49N,24W	Lafayette			x	x			B			
E. Bear Cr.	C	1.0	Mouth	33,46N,25W	Johnson			x	x			B			
E.Fk. Bee Br.	C	1.1	Mouth	16,37N,30W	Vernon			x	x			B			
E. Br. Crawford Cr.	C	2.0	32,46N,29W	20,46N,29W	Cass			x	x			B			
E. Br. Elkhorn Cr.	C	3.0	Mouth	18,63N,36W	Nodaway			x	x			B			
E. Br. Squaw Cr.	C	4.0	Mouth	5,62N,38W	Holt			x	x			B			
E. Brush Cr.	C	8.0	Mouth	16,45N,15W	Moniteau			x	x			B			
Trib. to E. Brush Cr.	C	0.5	Mouth	3,45N,15W	Moniteau			x	x			B			
E. Chan. Whitewater R.	C	4.5	Mouth	16,28N,12E	Scott			x	x			B			
E. Cow Cr.	C	2.0	25,51N,21W	19,51N,20W	Saline			x	x			B			
E. Ditch #1	P	22.0	Mouth	11,22N,10E	Dunklin	New Madrid		x	x			B	x		
E. Ditch #1	C	3.0	11,22N,10E	26,23N,10E	New Madrid			x	x			B			
E. Fk. Big Cr.	P	21.0	9,63N,28W	5,64N,27W	Harrison			x	x			B		x	
E. Fk. Big Cr.	C	19.0	5,64N,27W	State Line	Harrison			x	x			B		x	
E. Fk. Big Muddy Cr.	C	2.0	3,65N,29W	35,66N,29W	Harrison			x	x			B			
E. Fk. Black R.	P	17.0	Mouth	29,34N,3E	Reynolds	Iron		x	x			/x/A		x	
E. Fk. Black R.	C	1.0	29,34N,3E	21,34N,3E	Iron			x	x			B			
E. Fk. Bull Cr.	C	3.0	Mouth	23,26N,20W	Christian			x	x			B			
E. Fk. Chariton R.	P	48.5	Mouth	Long Br. Dam	Chariton	Macon	x					B		x	
E. Fk. Chariton R.	C	11.0	25,59N,15W	11,60N,15W	Macon			x	x			B		x	
E. Fk. Crooked R.	P	14.0	Mouth	32,54N,27W	Ray			x	x			B			
E. Fk. Crooked R.	C	8.0	32,54N,27W	5,54N,27W	Ray			x	x			B			
Trib. to E. Fk. Crooked R.	C	5.0	Mouth	24,54N,28W	Ray			x	x			B			
E. Fk. Drywood Cr.	C	10.0	Mouth	8,32N,32W	Barton			x	x			B			
E. Fk. Fishing R.	C	11.5	Mouth	20,53N,29W	Clay	Ray		x	x			B			
E. Fk. Fourche Cr.	P	3.0	Mouth	10,22N,1E	Ripley			x	x			B			
E. Fk. Fourche Cr.	C	2.0	10,22N,1E	Hwy. 142	Ripley			x	x			B			
E. Fk. Grand R.	P	25.0	Mouth	29,66N,30W	Gentry	Worth	x	x	x			/x/A	x	x	
E. Fk. Grand R.	C	6.5	29,66N,30W	10,66N,30W	Worth			x	x			B			
E. Fk. Honey Cr.	C	8.0	29,63N,23W	3,64N,23W	Grundy	Mercer		x	x			B			
E. Fk. Huzzah Cr.	P	5.0	1,34N,3W	20,34N,2W	Dent			x	x			B			
E. Fk. Huzzah Cr.	C	2.0	20,34N,2W	29,34N,2W	Dent			x	x			B			
Trib. to E. Fk. Huzzah Cr.	C	1.0	Mouth	30,34N,2W	Dent			x	x			B			
E. Fk. L. Blue R.	P	1.0	Mouth	27,49N,31W	Jackson			x	x			B			
E. Fk. L. Blue R.	C	5.0	27,49N,31W	Lake Jacomo Dam	Jackson			x	x			B			
Trib. to E. Fk. L. Blue R.	P	1.5	Mouth	Lk. Tapawingo Dam	Jackson			x	x			B			
E. Fk. L. Gravois Cr.	C	3.0	Mouth	3,40N,15W	Miller			x	x			B			
E. Fk. L. Tarkio Cr.	C	16.5	Mouth	21,65N,38W	Holt	Atchison	x	x	x			B			
E. Fk. Locust Cr.	P	16.0	Mouth	Hwy. 6	Sullivan			x	x			B			
E. Fk. Locust Cr.	C	13.0	Hwy. 6	12,64N,20W	Sullivan			x	x			B			
E. Fk. Lost Cr.	C	9.0	Mouth	11,60N,31W	Dekalb			x	x			B			
E. Fk. Lost Cr.	P	8.0	Mouth	17,28N,7E	Wayne			x	x			B			
Trib. to E. Fk. Lost Cr.	C	1.0	2,27N,7E	2,27N,7E	Wayne			x	x			B			

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												WBC	SCR	DWS	IND
Trib. to E. Fk. Lost Cr.	P	1.0	Mouth	2,27N,7E	Wayne			x	x			B			
E. Fk. Medicine Cr.	P	36.0	9,61N,22W	State Line	Grundy	Putnam		x	x			B			
E. Fk. Niangua R.	C	6.0	33,32N,18W	25,31N,18W	Webster			x	x			/x/A			
E. Fk. Postoak Cr.	C	13.0	22,46N,26W	9,44N,26W	Johnson			x	x			B			
Trib. to E. Fk. Postoak Cr.	C	2.0	Mouth	34,45N,26W	Johnson			x	x			B			
Trib. to E. Fk. Postoak Cr.	C	3.9	Mouth	23,44N,26W	Johnson			x	x			B			
E. Fk. Rock Cr.	C	4.0	Mouth	31,23N,25W	Barry			x	x			B			
Trib. to E. Fk. Rock Cr.	C	1.0	Mouth	18,22N,25W	Barry			x	x			B			
Trib. to E. Fk. Rock Cr.	C	1.0	Mouth	12,22N,26W	Barry			x	x			B			
E. Fk. Roubidoux Cr.	C	4.5	4,31N,11W	24,31N,11W	Texas			x	x			B			
E. Fk. Salt Pond Cr.	C	3.0	Mouth	19,49N,22W	Saline			x	x			B			
E. Fk. Shoal Cr.	C	2.0	Mouth	4,51N,32W	Clay			x	x			B			
E. Fk. Sni-a-bar Cr.	P	9.4	Mouth	Interst 70	Lafayette			x	x			B			
E. Fk. Sni-a-bar Cr.	C	11.9	Interst 70	29,48N,28W	Lafayette			x	x			B			
Trib. to E. Fk. Sni-a-bar	C	4.6	Mouth	22,48N,28W	Lafayette			x	x			B			
Trib. to E. Fk. Sni-a-bar	C	3.0	Mouth	30,48N,28W	Lafayette			x	x			B			
E. Fk. Sulphur Cr.	C	2.5	Mouth	30,50N,17W	Howard			x	x			B			
E. Fk. Tebo Cr.	C	12.0	31,43N,24W	35,44N,24W	Henry			x	x			B			
E. Fk. Walnut Cr.	C	1.5	Mouth	28,55N,14W	Randolph			x	x			B			
E. Prong	C	3.5	Mouth	17,35N,3W	Dent	Crawford		x	x			B			
E. Yellow Cr.	P	32.0	20,56N,19W	7,60N,18W	Chariton	Linn		x	x			B	x		
Earle Br.	C	0.7	Mouth	Hwy. F	Phelps			x	x			B			
East Br.	C	12.0	Mouth	1,44N,32W	Cass			x	x			B			
East Cr.	C	7.0	2,44N,33W	31,46N,33W	Cass			x	x			B			
Trib. to East Cr.	C	1.0	Mouth	32,46N,32W	Cass			x	x			B			
East Prong	C	1.0	Mouth	12,31N,7E	Madison			x	x			B			
East Prong	C	2.0	6,25N,7E	30,26N,7E	Butler			x	x			B			
Eaton Br.	C	3.0	Mouth	9,36N,4E	St. Francois			x	x			B			
Ebo Cr.	P	1.0	Mouth	13,38N,1E	Washington			x	x			B			
Ebo Cr.	C	1.5	13,38N,1E	Hwy. 185	Washington			x	x			B			
Eddington Br.	P	2.0	Mouth	1,29N,26W	Lawrence			x	x			B			
Edmondson Cr.	C	1.5	Mouth	4,52N,20W	Saline			x	x			B			
Trib. to Edmondson Cr.	C	2.5	Mouth	15,52N,20W	Saline			x	x			B			
Eight Mile Cr.	C	16.8	Mouth	36,44N,31W	Cass			x	x			B			
Elbow Cr.	P	1.0	Mouth	27,22N,18W	Taney			x	x			B			
Eleven Point R.	P	21.0	State Line	18,24N,2W	Oregon		x	x	x	x		/x/A	x		
Eleven Point R.	P	10.0	18,24N,2W	36,25N,4W	Oregon			x	x		x	/x/A	x		
Eleven Point R.	P	19.0	36,25N,4W	23,25N,6W	Oregon			x	x	x		/x/A	x		
Eleven Point R.	C	34.0	23,25N,6W	33,27N,9W	Oregon	Howell		x	x	x		B			
Elk Br.	C	2.1	Mouth	08,45N,22W	Pettis			x	x			B			
Elk Chute Ditch	P	11.0	Mouth	27,18N,10E	Dunklin			x	x			B			
Trib. to Elk Br.	C	0.2	Mouth	32,46N,22W	Pettis			x	x			B			
Trib. to Elk Fk.	C	0.2	Mouth	16,44N,23W	Pettis			x	x			B			
Elk Cr.	C	1.5	Mouth	29,47N,23W	Pettis			x	x			B			
Elk Cr.	C	4.0	14,61N,19W	6,55N,20W	Chariton			x	x			B			
Elk Cr.	C	8.0	Silver Lake	25,57N,20W	Chariton	Linn		x	x			B			
Elk Cr.	P	5.0	Mouth	33,32N,14W	Wright			x	x			B			
Elk Cr.	C	1.5	33,32N,14W	5,31N,14W	Wright			x	x			B			
Elk Cr.	P	3.0	Mouth	24,29N,10W	Texas			x	x			B			
Elk Cr.	C	2.0	24,29N,10W	30,29N,9W	Texas			x	x			B			
Elk Fk.	P	6.0	Mouth	04,44N,23W	Pettis			x	x			B			
Elk Fk.	C	4.5	Mouth	35,42N,30W	Bates			x	x			B			
Elk Fk. Salt R.	P	6.0	29,54N,9W	26,54N,10W	Monroe			x	x			B	x		
Elk Fk. Salt R.	C	31.0	26,54N,10W	16,54N,13W	Monroe	Randolph		x	x			B			
Elk R.	P	21.5	State Line	34,22N,32W	McDonald		x	x	x	x		/x/A	x		
Elkhorn Br.	C	1.5	Mouth	5,21N,8W	Howell			x	x			B			
Elkhorn Cr.	C	19.0	Mouth	3,48N,5W	Montgomery			x	x			B			
Elkhorn Cr.	C	8.0	Mouth	13,63N,37W	Nodaway			x	x			B			
Elkhorn Cr.	C	3.0	Mouth	3,26N,19W	Christian			x	x			B			
Elkhorn Cr.	P	5.5	Mouth	26,23N,31W	McDonald		x	x	x			B			
Elm Br.	C	3.0	Mouth	12,43N,24W	Henry			x	x			B			

IRR-Irrigation
LWW-Livestock & Wildlife Watering
AQL-Protection of Warm Water Aquatic Life

CLF-Cool Water Fishery
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[BTG-Boating and Canoeing]
DWS-Drinking Water Supply
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[BTG]
IRR LWW AQL CLF CDF WBC SCR DWS IND

TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Elm Cr.	C	3.0	Mouth	Hwy. 136	Putnam			x	x			B			
Elm Cr.	C	8.0	Mouth	20,66N,15W	Schuyler			x	x			B			
Elm Grove Br.	C	4.0	Mouth	27,61N,33W	Dekalb	Gentry		x	x			B			
Elm Spring Br.	C	1.0	6,24N,31W	7,24N,31W	Newton			x	x			B			
Ely Cr.	C	3.5	Mouth	1,55N,7W	Ralls			x	x			B			
Emery Hollow	C	3.9	Mouth	28,31N,10W	Texas			x	x			B			
Emory Cr.	C	2.0	Mouth	31,24N,21W	Taney			x	x			B			
English Cr.	C	2.5	State Line	33,22N,6W	Oregon			x	x			B			
Establishment Cr.	P	16.0	Mouth	23,37N,7E	Ste. Genevieve			x	x			B			
Establishment Cr.	C	3.0	23,37N,7E	33,37N,7E	Ste. Genevieve			x	x			B			
Fabius R.	P1	3.5	Mouth	24,59N,6W	Marion		x	x	x			B	x		
Factory Cr.	P	1.0	Mouth	2,46N,14W	Moniteau			x	x			B			
Factory Cr.	C	4.0	2,46N,14W	32,47N,14W	Moniteau			x	x			B			
Trib. to Factory Cr.	P	0.5	Mouth	2,46N,14W	Moniteau			x	x			B			
Trib. to Factory Cr.	C	0.5	2,46N,14W	35,47N,14W	Moniteau			x	x			B			
Trib. to Factory Cr.	C	0.5	Mouth	29,47N,14W	Moniteau			x	x			B			
Fall Cr.	P	1.0	Mouth	11,22N,22W	Taney			x	x			B			
Fall Cr.	C	3.6	11,22N,22W	28,23N,22W	Taney	Stone		x	x			B			
Fassnight Cr.	P	2.4	27,29N,22W	25,29N, 2W	Greene			x	x			B			
Fassnight Cr.	C	1.2	25,29N,22W	30,29N,/22/21W	Greene			x	x			B			
Feaster Cr.	C	0.6	Mouth	31,41N,21W	Benton			x	x			B			
Fee Fee Cr. (new)	P	1.5	Mouth	Creve Coeur											
				Mill Rd.	St. Louis			x	x			B			
Fee Fee Cr. (old)	P	1.0	Mouth	1 Mi. above Hwy. 70	St. Louis			x	x			B			
Femme Osage Cr.	P	5.5	Mouth	29,45N,2E	St. Charles			x	x			B			
Femme Osage Cr.	C	2.0	29,45N,2E	24,45N,1E	St. Charles			x	x			B			
Fenton Cr.	C	0.6	Mouth	Hwy. V	Franklin			x	x			B			
Fenton Cr.	P	0.5	Mouth	35,43N,05E	St. Louis			x	x			B			
Fiddle Cr.	C	2.0	Mouth	16,44N,2E	Franklin			x	x			B			
Fidelity Cr.	P	1.5	Mouth	Alt. Hwy. 71	Jasper			x	x			B			
Fiery Fk.	C	2.0	Mouth	36,39N,19W	Camden			x	x			B			
Finley Cr.	P	44.0	Mouth	19,28N,16W	Stone	Webster		x	x	x		/x/A	x		
Finn Br.	C	3.5	4,35N,8W	1,35N,8W	Phelps	Dent		x	x			B			
Finney Cr.	P	1.0	Mouth	28,49N,21W	Saline			x	x			B	x		
Finney Cr.	C	1.5	28,49N,21W	17,49N,21W	Saline			x	x			B			
Fire Br.	C	5.0	Mouth	27,54N,28W	Ray			x	x			B			
Fire Prairie Cr.	P	14.1	Mouth	18,50N,30W	Jackson			x	x			B			
First Cr.	C	4.0	Mouth	9,52N,33W	Clay	Platte		x	x			B			
First Cr.	P	1.0	Mouth	14,45N,6W	Gasconade			x	x			B			
First Cr.	C	10.0	14,45N,6W	5,44N,5W	Gasconade			x	x			B			
Trib. to First Cr.	C	2.5	Mouth	28,45N,5W	Gasconade			x	x			B			
Fish Br.	C	3.0	Mouth	28,52N,9W	Audrain			x	x			B			
Fish Cr.	C	12.0	Mouth	21,51N,19W	Saline			x	x			B			
Fish Lake Ditch	C	6.5	3,24N,16E	28,25N,17E	Mississippi			x	x			B			
Fish Trap Slough	C	15.0	State Line	2,23N,8E	Butler			x	x			B			
Fishing R.	P	22.0	Mouth	Hwy. 33	Ray	Clay	x	x	x			B			
Fishing R.	C	7.5	Hwy. 33	24,52N,32W	Clay			x	x			B			
Fishpot Cr.	P	2.0	Mouth	13,44N,05E	St. Louis			x	x			B			
Five Mile Cr.	P	5.0	State Line	21,26N,33W	Newton		x	x	x			B			
Flagstaff Cr.	C	4.0	Mouth	3,47N,25W	Johnson			x	x			B			
Flat Cr.	C	1.0	Mouth	Hwy. A	Franklin			x	x			B			
Flat Cr.	P	2.7	Mouth	44N,03E	St. Louis			x	x			B			
Flat Cr.	C	10.0	Mouth	2,54N,13W	Monroe	Randolph		x	x			B			
Flat Cr.	P	[44.8/23.7	Mouth	[11,43N,23W]	Morgan	Pettis		x	x			B	x		
Flat Cr.	C	21.8	13,45N,21W	02,43N,23W	Pettis			x	x			B	x		
Trib. to Flat Cr.	C	1.1	Mouth	18,45N,21W	Pettis			x	x			B			
Trib. to Flat Cr.	C	1.5	Mouth	18,45N,20W	Pettis			x	x			B			
Trib. to Flat Cr.	C	2.3	Mouth	15,45N,20W	Pettis			x	x			B			
Trib. to Flat Cr.	C	1.0	Mouth	19,44N,22W	Pettis			x	x			B			

[BTG]

IRR Irrigation LWW Livestock & Wildlife Watering AQL Protection of Warm Water Aquatic Life

CLF-Cool Water Fishery
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DWS-Drinking Water Supply
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Trib. to Flat Cr.	C	0.9	Mouth	10,44N,22W	Pettis			x	x			B			
Trib. to Flat Cr.	C	1.2	Mouth	24,45N,22W	Pettis			x	x			B			
Trib. to Flat Cr.	C	2.1	Mouth	13,45N,20W	Pettis			x	x			B			
Trib. to Flat Cr.	C	2.1	Mouth	07,43N,22W	Pettis			x	x			B			
Trib. to Flat Cr.	C	0.7	Mouth	14,43N,23W	Pettis	Benton		x	x			B			
Flat Cr.	C	4.5	Mouth	8,49N,19W	Saline	Cooper		x	x			B			
Flat Cr.	P	39.0	28,24N,24W	9,23N,27W	Stone	Barry		x	x	x		/x/A		x	
Flat Cr.	P	3.0	9,23N,27W	21,23N,27W	Barry		x	x	x		x	/x/A		x	
Flat Cr.	P	7.5	21,23N,27W	23,22N,28W	Barry			x	x	x		/x/A		x	
Trib. to Flat Cr.	C	3.0	Mouth	28,24N,26W	Barry			x	x			B			
Trib. to Flat Cr.	C	2.0	Mouth	26,22N,28W	Barry			x	x			B			
Flat Cr.	C	6.0	Mouth	20,24N,3E	Ripley			x	x			B			
Flat Rock Cr.	C	0.1	Mouth	05,40N,20W	Benton			x	x			B			
Flat River Cr.	C	9.0	Mouth	21,36N,4E	St. Francois			x	x			B			
Flatrock Cr.	P	2.0	Mouth	1,33N,12E	Cape Girardeau			x	x			B			
Flatrock Cr.	C	1.5	1,33N,12E	12,33N,12E	Cape Girardeau			x	x			B			
Fleck Cr.	C	3.0	Mouth	29,32N,33W	Barton			x	x			B			
Trib. to Fleck Cr.	C	2.0	Mouth	28,32N,33W	Barton			x	x			B			
Fletchall Cr.	C	3.5	Mouth	State Line	Worth			x	x			B			
Flinger Br.	C	1.7	Mouth	17,28N,08W	Texas			x	x			B			
Flint Bottom Cr.	C	3.0	Mouth	21,37N,8E	Ste. Genevieve			x	x			B			
Flint Hill	P	4.0	Mouth	9,30N,22W	Greene			x	x			B			
Flora Cr.	P	6.0	Mouth	35,32N,14E	Cape Girardeau			x	x			B			
Florida Cr.	C	6.0	Mouth	24,64N,37W	Nodaway			x	x			B			
Floyd Cr.	C	3.0	Mouth	29,63N,14W	Adair			x	x			B			
Flucom Br.	C	2.0	Mouth	12,39N,5E	Jefferson			x	x			B			
Fly Cr.	P	2.0	Mouth	Hwy. 42	Maries			x	x			B			
Fly Cr.	C	0.5	Hwy. 42	30,40N,9W	Maries			x	x			B			
Fly Cr.	C	6.1	Mouth	02,35N,29W	Vernon			x	x			B			
Fonso Br.	P	1.5	Mouth	6,47N,6W	Montgomery			x	x			B			
Fork Cr.	C	4.5	Mouth	6,44N,4W	Franklin	Gasconade		x	x			B			
Fortune Br.	C	2.5	Mouth	9,23N,26W	Barry			x	x			B			
Foster Cr.	C	2.0	Mouth	4,30N,12E	Cape Girardeau			x	x			B			
Fountain Farm Br.	C	1.8	Mouth	32,38N,03E	Washington			x	x			B			
Fourche Cr.	P	14.0	State Line	15,23N,1W	Ripley		x	x	x	x		/x/A		x	
Fourche a DuClos Cr.	P	7.5	Mouth	30,38N,7E	Ste. Genevieve			x	x			B			
Fourche a DuClos Cr.	C	3.0	30,38N,7E	2,37N,6E	Ste. Genevieve			x	x			B			
Trib. to Fourche a DuClos Cr.	C	1.0	Mouth	31,38N,7E	Ste. Genevieve			x	x			B			
Fourche a Renault Cr.	P	8.0	7,38N,2E	Sunnen Lake Dam	Washington			x	x			B			
Fourche a Renault Cr.	P	0.5	Sunnen Lake	15,37N,1E	Washington			x	x			B			
Fourche a Renault Cr.	C	2.0	15,37N,1E	23,37N,1E	Washington			x	x			B			
Fourmile Cr.	C	5.0	Mouth	29,34N,18W	Dallas			x	x			B			
Fowler Cr.	C	6.0	Mouth	13,46N,12W	Boone			x	x			B			
Fox Cr.	C	7.0	Mouth	20,63N,26W	Harrison			x	x			B			
Fox Cr.	P	6.3	Mouth	30,44N,03E	St. Louis			x	x			B			
Fox Cr.	C	0.5	Mouth	27,21N,20W	Taney			x	x			B			
Fox Cr.	P	4.0	Mouth	9,25N,13W	Douglas			x	x			B			
Fox Cr.	C	5.0	9,25N,13W	29,26N,13W	Douglas			x	x			B			
Fox R.	P1	12.0	Mouth	Spur 136	Clark			x	x			B		x	
Fox R.	P	27.0	Spur 136	State Line	Clark			x	x			B		x	
Franklin Cr.	C	2.0	Mouth	32,26N,7E	Butler			x	x			B			
Frederick Cr.	P	3.0	Mouth	8,22N,2W	Oregon			x	x			/x/A		x	
Frederick Cr.	C	10.0	8,22N,2W	2,22N,4W	Oregon			x	x			B		x	
Frene Cr.	P	1.5	Mouth	Hwy. 100	Gasconade			x	x			B			
Frene Cr.	C	3.0	Hwy. 100	10,45N,5W	Gasconade			x	x			B			
Trib. to Frene Cr.	C	0.5	Mouth	10,45N,5W	Gasconade			x	x			B			
Freshwater Cr.	P	4.5	Mouth	33,35N,4W	Dent			x	x			B			
Froe Hollow	P	1.5	Mouth	34,34N,4E	Iron			x	x			B			
Funk Br.	C	2.5	Mouth	32,31N,3E	Reynolds	Iron		x	x			B			

[BTG]

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Furnace Cr.	P	2.0	Mouth	14,36N,2E	Washington			x	x			B			
Gabriel Cr.	P	4.0	Mouth	7,44N,18W	Morgan			x	x			/x/A	x		
Gabriel Cr.	C	13.0	7,44N,18W	3,42N,19W	Morgan			x	x			B			
Galbreath Cr.	C	4.5	18,53N,12W	22,53N,13W	Randolph			x	x			B			
Galena Hollow	C	2.5	Mouth	20,23N,26W	Barry			x	x			B			
Galligher Cr.	P	0.2	Mouth	20,41N,04E	Jefferson			x	x			B			
Gallinipper Cr.	C	1.0	Mouth	35,39N,26W	St. Clair			x	x			B			
Gallinipper Cr.	C	1.0	27,39N,26W	27,39N,26W	St. Clair			x	x			B			
Galloway Cr.	P	3.2	16,28N,21W	4,28N,21W	Greene			x	x			B			
Ganaway Cr.	C	2.0	Mouth	23,52N,16W	Howard			x	x			B			
Gans Cr.	C	5.0	Hwy. 163	Hwy. 63	Boone			x	x			/x/A			
Garrison Br.	C	2.0	Mouth	29,25N,19W	Christian			x	x			B			
Garrison Br.	C	0.7	23,27N,21W	23,27N,21W	Christian			x	x			B			
Garrison Fk.	C	5.0	Mouth	13,50N,27W	Lafayette			x	x			B			
Gasconade R.	P	249.0	Mouth	6,29N,14W	Gasconade	Wright		x	x	x		/x/A	x	x	
Trib. to Gasconade R.	C	0.5	26,29N,16W	34,29N,16W	Wright			x	x			B			
Trib. to Gasconade R.	C	2.0	Mouth	24,44N,7W	Gasconade	Osage		x	x			B			
Trib. to Gasconade R.	P	1.0	Mouth	32,43N,7W	Osage			x	x			B			
Trib. to Gasconade R.	C	0.5	32,43N,7W	5,42N,7W	Osage			x	x			B			
Trib. to Gasconade R.	C	2.0	Mouth	23,42N,8W	Osage			x	x			B			
Trib. to Gasconade R.	C	1.0	Mouth	2,38N,9W	Phelps			x	x			B			
Trib. to Gasconade R.	C	1.2	Mouth	Hwy N	Osage			x	x			B			
Gees Cr.	C	13.0	Mouth	29,60N,25W	Livingston	Grundy		x	x			B			
Gibler Cr.	P	1.0	Mouth	11,45N,13W	Cole			x	x			B			
Gibler Cr.	C	2.5	10,45N,13W	16,45N,13W	Cole			x	x			B			
Gillum Cr.	C	2.5	Mouth	23,39N,33W	Bates			x	x			B			
Gimlet Cr.	P	1.5	Mouth	26,31N,7E	Madison			x	x			B			
Girard Br.	C	1.5	Mouth	33,41N,1E	Franklin			x	x			B			
Givins Br.	C	4.0	Mouth	11,32N,19W	Webster			x	x			B			
Gizzard Cr.	P	2.0	Mouth	6,29N,11E	Cape Girardeau	Bollinger		x	x			B			
Gizzard Cr.	C	1.0	6,29N,11E	36,30N,10E	Bollinger			x	x			B			
Trib. to Gizzard Cr.	C	1.0	Mouth	1,29N,10E	Bollinger			x	x			B			
Gizzard Cr.	P	0.5	Mouth	27,30N,7E	Wayne			x	x			B			
Gladden Cr.	P	2.0	Mouth	13,31N,6W	Shannon			x	x			B			
Gladden Cr.	C	13.5	13,31N,6W	5,32N,5W	Shannon	Dent		x	x			B			
Glade Cr.	C	0.5	Mouth	Sur 2081,30N,4E	Iron			x	x			B			
Glaize Cr.	P	5.5	Mouth	22,42N,5E	Jefferson			x	x			B			
Glaize Cr.	C	2.0	22,42N,5E	21,42N,5E	Jefferson			x	x			B			
Glendale Fk.	C	4.0	Mouth	14,31N,33W	Barton			x	x			B			
Goldsbarry Hollow	C	3.0	Mouth	31,23N,16W	Ozark			x	x			B			
Goose Cr.	P	2.0	Mouth	32,62N,29W	Daviess			x	x			B			
Goose Cr.	C	3.5	Mouth	14,56N,29W	Caldwell			x	x			B			
Goose Cr.	P	4.0	Mouth	10,28N,25W	Lawrence			x	x		x	B			
Trib. to Goose Cr.	C	3.0	Mouth	18,28N,25W	Lawrence			x	x			B			
Goose Cr.	C	6.5	Mouth	27,38N,6E	Ste. Genevieve	St. Francois		x	x			B			
Goose Cr.	P	3.5	Mouth	17,35N,10E	Perry			x	x			B			
Goose Cr.	C	1.5	17,35N,10E	24,35N,9E	Perry			x	x			B			
Goose Cr.	P	1.0	Mouth	18,39N,1E	Washington			x	x			B			
Goose Cr.	C	2.0	18,39N,1E	21,39N,1E	Washington			x	x			B			
Goose Cr.	C	2.0	Mouth	Hwy. 32	Washington			x	x			B			
Goose Cr.	C	3.0	Mouth	6,31N,13W	Cape Girardeau			x	x			B			
Goose Cr.	C	1.5	Mouth	30,29N,7E	Wayne			x	x			B			
Goose Cr.	C	2.5	Mouth	28,26N,5E	Butler			x	x			B			
Goose Cr.	P	1.0	Mouth	22,33N,7E	Madison			x	x			B			
Goose Cr.	C	1.0	22,33N,7E	27,33N,7E	Madison			x	x			B			
Goose Pond Ditch	C	4.0	21,27N,9E	8,26N,9E	Stoddard			x	x			B			
Trib. to Goose Pond Ditch	C	1.0	Mouth	4,26N,9E	Stoddard			x	x			B			
Gooseneck Br.	C	2.5	Mouth	22,37N,20W	Hickory			x	x			B			
Gordon Cr.	P	2.0	Mouth	15,32N,3W	Dent			x	x			B			
Gordon Cr.	C	0.5	15,32N,3W	11,32N,3W	Dent			x	x			B			
Gower Br.	C	2.0	Mouth	09,32N,19W	Dallas			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Gracey Cr.	C	2.0	Mouth	5,42N,16W	Morgan			x	x			B			
Grand Glaize Cr.	P	7.0	Mouth	24,38N,15W	Miller	Camden		x	x			/x/A	x		
Grand Glaize Cr.	C	4.0	Mouth	9,44N,5E	St. Louis			x	x			B			
Grand R.	P	60.0	Mouth	Shoal Cr.	Chariton	Livingston	x	x	x			/x/A	x	x	
Grand R.	P	97.0	Shoal Cr.	State Line	Livingston	Worth	x	x	x			/x/A	x	x	
Old Chan. Grand R.	C	2.5	Mouth	18,57N,24W	Livingston			x	x			B			
Old Chan. Grand R.	P	14.0	Mouth	6,58N,26W	Daviess			x	x			B			
Old Chan. Grand R.	C	3.5	1,58N,27W	35,59N,27W	Daviess			x	x			B			
Old Chan. Grand R.	C	5.0	2,56N,22W	7,56N,21W	Livingston			x	x			B			
Old Chan. Grand R.	C	1.5	20,57N,23W	30,57N,23W	Livingston			x	x			B			
Old Chan. Grand R.	C	4.0	26,57N,23W	26,57N,23W	Livingston			x	x			B			
Granddaddy's Cr.	C	1.0	Mouth	26,41N,28W	Henry			x	x			B			
Granny Cr.	P	1.0	Mouth	6,30N,11E	Bollinger			x	x			B			
Granny Cr.	C	1.0	6,30N,11E	31,31N,11E	Bollinger			x	x			B			
Grantham Cr.	C	2.0	Mouth	2,64N,33W	Gentry			x	x			B			
Grassy Cr.	C	17.5	Mouth	34,61N,8W	Marion	Lewis		x	x			B			
Grassy Cr.	C	2.0	Mouth	Hwy. 79	Pike			x	x			B			
Grassy Cr.	P	1.0	Mouth	20,30N,8E	Bollinger			x	x			B			
Grassy Cr.	C	3.0	20,30N,8E	14,30N,8E	Bollinger			x	x			B			
Grassy Cr.	C	2.4	Mouth	27,48N,22W	Saline	Pettis		x	x			B			
Grassy Hollow	C	3.9	Mouth	09,28N,07W	Texas			x	x			B			
Graveyard Br.	C	0.4	Mouth	01,42N,09W	Osage			x	x			B			
Gravois Cr.	P	9.0	Mouth	20,42N,18W	Morgan			x	x			/x/A	x		
Gravois Cr.	P	2.0	Mouth	24,44N,6E	St. Louis City	St. Louis		x	x			B			
Gravois Cr.	C	4.0	24,44N,6E	Hwy. 30	St. Louis			x	x			B			
Grays Cr.	P	14.0	Mouth	35,45N,13W	Cole			x	x			B			
Grays Cr.	C	1.0	35,45N,13W	34,45N,13W	Cole			x	x			B			
Greasy Cr.	P	4.0	Mouth	31,34N,19W	Dallas			x	x		x	B			
Greasy Cr.	C	10.5	31,34N,19W	11,32N,20W	Dallas			x	x		x	B			
Trib. to Greasy Cr.	C	1.0	Mouth	33,33N,20W	Dallas			x	x			B			
Greasy Cr.	P	0.2	Mouth	14,45N,08W	Osage			x	x			B			
Greasy Cr.	C	0.7	14,45N,08W	13,45N,08W	Osage			x	x			B			
Greasy Cr.	C	5.0	Mouth	23,35N,7E	Ste. Genevieve			x	x			B			
Greasy Cr.	C	4.0	Mouth	12,21N,29W	Barry			x	x			B			
Trib. to Greasy Cr.	C	2.0	Mouth	13,21N,29W	Barry			x	x			B			
Greedy Cr.	P	0.8	Mouth	29,41N,06W	Gasconade			x	x			B			
Greedy Cr.	C	1.0	29,41N,06W	18,41N,06W	Gasconade			x	x			B			
Trib. to Greedy Cr.	P	0.2	Mouth	Hwy B	Gasconade			x	x			B			
Greenbriar Cr.	C	1.5	Mouth	33,24N,2W	Oregon			x	x			B			
Greens Cr.	C	0.5	Mouth	2,39N,2W	Crawford			x	x			B			
Green Spring Br.	C	1.8	Mouth	02,35N,25W	St. Clair	Cedar		x	x			B			
Greenwood Valley	C	1.5	Mouth	28,28N,3E	Wayne			x	x			B			
Greer Br.	C	5.5	Mouth	23,47N,21W	Pettis			x	x			B			
Greer Cr.	C	3.0	Mouth	25,32N,19W	Webster			x	x			B			
Greer Spring Br.	P	1.0	Mouth	36,25N,4W	Oregon			x	x		x	B			
Greggs Cr.	C	2.0	Mouth	15,51N,17W	Howard			x	x			B			
Greys Lake	C	5.0	24,66N,42W	3,66N,42W	Atchison			x	x			B			
Grindstone Br.	C	6.0	Mouth	25,51N,13W	Boone			x	x			B			
Grindstone Cr.	P	17.0	Mouth	35,59N,30W	Daviess	De/k/Kalb		x	x			/x/A	x		
Grindstone Cr.	C	16.0	35,59N,30W	24,57N,31W	De/k/Kalb	Clinton		x	x			B			
Trib. to Grindstone Cr.	C	1.0	Mouth	9,57N,30W	De/k/Kalb			x	x			B			
Grindstone Cr.	C	1.5	Mouth	20,48N,12W	Boone			x	x			/x/A			
Groshong Br.	C	1.5	Mouth	12,48N,1E	Lincoln			x	x			B			
Grounds Cr.	C	1.5	Mouth	4,32N,8E	Madison			x	x			B			
Grove Cr.	C	3.0	Mouth	8,54N,33W	Platte			x	x			B			
Grove Cr.	P	2.0	Mouth	1,27N,32W	Jasper			x	x			B			
Guinns Cr.	C	0.5	Mouth	30,52N,2E	Pike			x	x			B			
Gulley Spring Cr.	C	3.5	Mouth	5,21N,14W	Ozark			x	x			B			
Gum Spring Cr.	P	1.0	Mouth	Hwy. W	Cole			x	x			B			
Gum Spring Cr.	C	0.5	Hwy. W	31,43N,11W	Cole			x	x			B			
Gunter Cr.	C	6.0	Mouth	29,24N,27W	Barry			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Hackberry Br.	C	3.7	Mouth	29,35N,32W	Vernon			x	x			B			
Hagard Cr.	C	1.5	Mouth	1,22N,14W	Ozark			x	x			B			
Haldiman Br.	C	3.0	Mouth	10,46N,14W	Moniteau			x	x			B			
Half Moon Bayou	C	3.0	23,17N,12E	18,17N,13E	Pemiscot			x	x			B			
Halls Cr.	C	1.5	Mouth	18,46N,8W	Callaway			x	x			B			
Halsey Hollow	C	2.0	Mouth	2,35N,18W	Dallas			x	x			B			
Hamilton Cr.	P	4.5	Mouth	5,29N,10W	Texas			x	x			B			
Hamilton Cr.	C	2.0	5,29N,10W	7,29N,10W	Texas			x	x			B			
Hamilton Cr.	C	2.0	Mouth	29,40N,1W	Washington			x	x			B			
Trib. to Hamilton Cr.	C	0.5	Mouth	29,40N,1W	Washington			x	x			B			
Hamilton Cr.	P	1.3	Mouth	14,44N,03E	St. Louis			x	x			B			
Hancock Hollow	C	1.0	Mouth	2,25N,21W	Christian			x	x			B			
Harding Cr.	C	2.0	Mouth	15,43N,33W	Cass			x	x			B			
Harless Cr.	C	2.0	34,44N,31N	28,44N,33W	Cass			x	x			B			
Harris Br.	C	1.0	Mouth	18,39N,1W	Washington			x	x			B			
Harris Cr.	C	4.5	Mouth	Hwy. 142	Ripley			x	x			B			
Harrison Br.	P	1.0	Mouth	15,24N,33W	Newton			x	x			B			
Harrison Br.	C	1.5	15,24N,33W	23,24N,33W	Newton			x	x			B			
Harrison Cr.	C	3.5	Mouth	32,49N,8W	Callaway			x	x			B			
Hart Cr.	C	4.0	Mouth	6,45N,12W	Boone			x	x			B			
Hartman Cr.	C	2.0	Mouth	7,25N,6E	Butler			x	x			B			
Harviell Ditch (#3)	C	16.0	State Line	14,23N,5E	Ripley	Butler	x	x	x			B			
Haverstick Cr.	C	2.0	Mouth	29,40N,5E	Jefferson			x	x			B			
Haw Cr.	P	17.5	Mouth	6,42N,19W	Morgan			x	x			/x/A	x		
Haw Cr.	C	1.0	Mouth	33,40N,13W	Miller			x	x			B			
Haw Cr.	C	1.5	6,42N,19W	12,42N,20W	Morgan	Benton		x	x			B			
Trib. to Haw Cr.	P	1.0	Mouth	19,43N,19W	Morgan			x	x			B			
Trib. to Haw Cr.	C	1.0	Mouth	26,43N,20W	Benton			x	x			B			
Hawker Br.	C	2.0	16,33N,26W	18,33N,26W	Cedar			x	x			B			
Hawker Cr.	P	8.0	Mouth	16,29N,9E	Bollinger			x	x			B			
Hawker Cr.	C	1.5	16,29N,9E	8,29N,9E	Bollinger			x	x			B			
Hawn Cr.	C	0.5	Mouth	30,32N,9E	Bollinger			x	x			B			
Hayden Cr.	C	3.0	Mouth	7,36N,4E	St. Francois			x	x			B			
Hays Cr.	C	2.0	Mouth	29,54N,5W	Ralls			x	x			B			
Hayzett Br.	P	2.0	Mouth	25,62N,37W	Nodaway			x	x			B			
Hazel Cr.	C	5.0	Mouth	31,64N,15W	Adair			x	x			B			
Hazel Cr.	P	8.0	Mouth	20,36N,1E	Washington			x	x			B			
Hazel Cr.	C	1.5	20,36N,1E	15,36N,1E	Washington			x	x			B			
Trib. to Hazel Cr.	C	1.0	Mouth	22,36N,1E	Washington			x	x			B			
Hazel Run	C	3.0	Mouth	35,38N,5E	St. Francois			x	x			B			
Hazelton Spring	P	0.1	Mouth	34,33N,10W	Texas			x	x			B			
Heads Cr.	P	3.0	Mouth	3,42N,4E	Jefferson			x	x			B			
Heads Cr.	C	1.5	3,42N,4E	14,42N,4E	Jefferson			x	x			B			
Headwater Div. Chan.	P	20.0	Mouth	4,29N,11E	Cape Girardeau			x	x			/x/A	x	x	
Trib. Headwater Div.	P	1.5	Mouth	31,30N,12E	Cape Girardeau			x	x			B			
Trib. Headwater Div.	C	1.0	31,30N,12E	36,30N,11E	Cape Girardeau			x	x			B			
Heat String Cr.	C	1.0	Mouth	31,49N,7W	Callaway			x	x			B			
Heaths Cr.	P	13.0	Mouth	27,48N,22W	Cooper	Pettis		x	x	x		B			
Heaths Cr.	C	10.0	27,48N,22W	17,47N,22W	Pettis			x	x	x		B			
Trib. to Heaths Cr.	C	3.5	Mouth	28,47N,22W	Pettis			x	x			B			
Trib. to Heaths Cr.	C	2.0	Mouth	20,47N,22W	Pettis			x	x			B			
Trib. to Heaths Cr.	C	1.1	Mouth	08,47N,21W	Pettis			x	x			B			
Trib. to Heaths Cr.	C	0.5	Mouth	32,48N,21W	Pettis			x	x			B			
Trib. to trib. to Heaths Cr.	C	1.0	Mouth	27,47N,22W	Pettis			x	x			B			
Henderson Cr.	P	1.0	Mouth	32,33N,8E	Madison			x	x			B			
Henderson Cr.	C	1.5	32,33N,8E	30,33N,7E	Madison			x	x			B			
Henderson Hollow	C	0.5	Mouth	16,30N,4E	Iron			x	x			B			
Henpeck Hollow	C	2.0	Mouth	22,38N,2W	Crawford			x	x			B			
Henry Cr.	P	1.7	Mouth	14,44N,22W	Pettis			x	x			B			
Henry Cr.	C	2.3	14,44N,22W	36,44N,22W	Pettis			x	x			B			
Trib. to Henry Cr.	C	1.2	Mouth	31,44N,21W	Pettis	Benton		x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Hess Cr.	C	3.1	Mouth	13,47N,22W	Pettis			x	x			B			
Trib. to Hess Cr.	C	0.7	Mouth	18,47N,21W	Pettis			x	x			B			
Hicklin Cr.	C	4.0	4,34N,28W	12,34N,29W	Cedar			x	x			B			
Hickory Br.	C	6.0	Mouth	12,55N,20W	Chariton			x	x			B			
Hickory Cr.	C	6.0	Mouth	2,51N,6W	Audrain			x	x			B			
Hickory Cr.	C	1.0	Mouth	21,61N,37W	Holt			x	x			B			
Hickory Cr.	C	2.0	Mouth	11,61N,34W	Andrew			x	x			B			
Hickory Cr.	C	1.5	Mouth	11,60N,28W	Daviess			x	x			B			
Hickory Cr.	P	3.0	Mouth	22,61N,31W	Gentry			x	x			B			
Hickory Cr.	C	7.0	Mouth	9,60N,25W	Grundy			x	x			B			
Trib. to Hickory Cr.	C	1.0	Mouth	9,60N,25W	Grundy			x	x			B			
Hickory Cr.	C	4.0	Mouth	20,37N,7E	Ste. Genevieve			x	x			B			
Hickory Cr.	C	3.0	Mouth	11,25N,6E	Butler			x	x			B			
Hickory Cr.	P	1.0	Mouth	6,27N,7E	Wayne			x	x			B			
Hickory Cr.	P	4.5	Mouth	28,25N,31W	Newton			x	x			/x/A			
Higgins Cr.	C	1.0	Mouth	34,43N,12W	Cole			x	x			B			
Trib. to Higgins Cr.	C	0.5	Mouth	33,43N,12W	Cole			x	x			B			
High Cr.	C	5.5	20,66N,41W	13,66N,41W	Atchison			x	x			B			
Trib. to High Cr.	C	2.0	Mouth	14,66N,42W	Atchison			x	x			B			
High Cr. Ditch	C	4.5	22,66N,42W	20,66N,41W	Atchison			x	x			B			
Highly Cr.	C	3.0	Mouth	7,62N,37W	Holt			x	x			B			
Hightower Cr.	C	4.4	Mouth	30,37N,30W	Vernon			x	x			B			
Hillers Cr.	P	5.0	Mouth	32,45N,9W	Callaway			x	x			B			
Hillers Cr.	C	11.0	32,45N,9W	34,46N,10W	Callaway			x	x			B			
Hinch Cr.	P	1.5	Mouth	33,39N,2W	Crawford			x	x			B			
Hinch Cr.	C	1.5	33,39N,2W	4,38N,2W	Crawford			x	x			B			
Trib. to Hinch Cr.	C	1.0	Mouth	34,39N,2W	Crawford			x	x			B			
Hinkson Cr.	P	6.0	Mouth	Hwy. 163	Boone			x	x			B	x		
Hinkson Cr.	C	18.0	Hwy. 163	36,50N,12W	Boone			x	x			B			
Trib. to Hinkson Cr.	C	0.5	Mouth	2,49N,12W	Boone			x	x			B			
Hippo Br.	C	2.0	Mouth	7,54N,5W	Ralls			x	x			B			
Hocum Hollow	C	0.5	Mouth	Sur 1856,40N,6E	Jefferson			x	x			B			
Hodge Cr.	C	2.0	28,32N,4W	16,32N,4W	Dent			x	x			B			
Hog Cr.	C	5.0	Mouth	18,62N,16W	Adair			x	x			B			
Hog Cr.	P	4.5	Mouth	06,29N,9W	Texas			x	x	x		B			
Hog Cr.	C	5.1	06,29N,9W	16,29N,09W	Texas			x	x			B			
Hog Cr.	P	8.5	Mouth	14,31N,10E	Bollinger			x	x			B			
Hog Cr.	C	1.5	14,31N,10E	3,31N,10E	Cape Girardeau	Bollinger		x	x			/x/A			
Hogan's Fk.	C	5.8	Mouth	17,44N,26W	Johnson			x	x			B			
Trib. to Hogan's Fk.	C	2.3	Mouth	13,44N,27W	Johnson			x	x			B			
Hogles Cr.	P	20.7	Mouth	32,38N,23W	Benton	Hickory		x	x	x		B			
Hogles Cr.	C	7.4	32,38N,23W	34,37N,23W	Hickory			x	x	x		B			
Trib. to Hogles Cr.	C	1.0	Mouth	26,39N,24W	St. Clair			x	x			B			
Trib. to Hogles Cr.	C	0.8	Mouth	32,39N,23W	Benton			x	x			B			
Trib. to Hogles Cr.	C	2.8	Mouth	22,37N,23W	Hickory			x	x			B			
Holland Br.	C	2.0	Mouth	10,54N,34W	Platte			x	x			B			
Homes Cr.	C	5.2	Mouth	Hwy 33	Clay			x	x			B			
Holtzclaw Cr.	C	2.0	Mouth	15,53N,32W	Clay			x	x			B			
Hominy Cr.	C	1.0	Mouth	Hwy 63	Boone			x	x			B			
Hominy Cr.	P	12.5	Mouth	15,33N,21W	Polk			x	x			B			
Honey Cr.	P1	7.0	Mouth	Hwy 61	Clark			x	x			B	x		
Honey Cr.	C	15.0	Hwy 61	Hwy 81	Clark			x	x			B			
Honey Cr.	P	8.5	Mouth	1,65N,33W	Nodaway			x	x			B			
Honey Cr.	C	5.0	1,65N,33W	18,66N,33W	Nodaway			x	x			B			
Honey Cr.	C	6.0	Mouth	35,59N,28W	Daviess			x	x			B			
Honey Cr.	C	23.0	Mouth	29,63N,23W	Livingston	Grundy		x	x			B			
Honey Cr.	C	2.0	Mouth	13,46N,19W	Cooper			x	x			B			
Honey Cr.	C	8.0	Mouth	14,47N,27W	Johnson			x	x			B			
Honey Cr.	C	4.0	Mouth	29,43N,12W	Cole			x	x			B			
Honey Cr.	C	10.0	Mouth	24,43N,27W	Henry			x	x			B			
Honey Cr.	P	13.0	Mouth	22,27N,25W	Lawrence			x	x			B			
Honey Cr.	C	2.0	22,27N,25W	35,27N,25W	Lawrence			x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Honey Cr.	P	3.0	State Line	State Line	McDonald		x	x	x			[x/A]			
Honey Cypress Ditch	P	15.0	Mouth	27,18N,8E	Dunklin			x	x			B			
Honey Run	C	1.5	Mouth	6,38N,15W	Camden			x	x			B			
Trib. to Honey Run	C	0.5	Mouth	6,38N,15W	Camden			x	x			B			
Hoover Cr.	C	7.0	Mouth	1,55N,14W	Macon	Randolph		x	x			B			
Hopewell Cr.	C	1.0	Mouth	3,36N,3E	Washington			x	x			B			
Horrell Cr.	P	3.0	Mouth	Sur 233,32N,12E	Cape Girardeau			x	x			B			
Horrell Cr.	C	1.5	Sur 233,32N,12E	2,32N,12E	Cape Girardeau			x	x			B			
Horse Cr.	P	24.5	Mouth	35,34N,29W	Cedar	Vernon	x	x	x			B			
Horse Cr.	C	25.0	35,34N,29W	15,31N,28W	Barton	Dade		x	x			B			
Trib. to Horse Cr.	C	2.0	Mouth	29,32N,28W	Dade			x	x			B			
Horse Cr.	C	2.0	Mouth	26,25N,23W	Stone			x	x			B			
Horse Fk.	C	4.0	Mouth	6,55N,31W	Clinton			x	x			B			
Horseshoe Cr.	C	5.8	Mouth	10,48N,29W	Jackson	Lafayette		x	x			B			
Horstman Cr.	C	2.0	Mouth	7,45N,4W	Gasconade			x	x			B			
Houfs Cr.	C	1.0	Mouth	27,48N,9W	Callaway			x	x			B			
Housgen Cr.	C	0.9	Mouth	Hwy C	Osage			x	x			B			
Houston Cr.	C	1.5	Mouth	11,41N,1W	Franklin			x	x			B			
Howard Cr.	C	4.0	Mouth	2,46N,15W	Moniteau			x	x			B			
Howell Cr.	C	14.0	8,23N,6W	22,24N,8W	Oregon	Howell		x	x			B			
Trib. to Howell Cr.	C	1.0	Mouth	12,23N,7W	Howell			x	x			B			
Hubble Cr.	P	15.0	Mouth	Hwy. 61	Cape Girardeau			x	x			B			
Hubble Cr.	C	2.5	Hwy. 61	30,32N,13E	Cape Girardeau			x	x			B			
Old Chan. Hubble Cr.	C	2.5	Mouth	11,29N,12E	Scott	Cape Girardeau		x	x			B			
Hubble Cr.	P	2.5	Mouth	23,29N,5E	Wayne			x	x			B			
Hubble Cr.	C	1.0	23,29N,5E	11,29N,5E	Wayne			x	x			B			
Hudson Cr.	C	4.0	17,25N,28W	11,25N,28W	Barry			x	x			B			
Huff Cr.	C	1.5	Mouth	6,69N,37W	Nodaway			x	x			B			
Huffstetter Lateral	P	12.0	6,23N,11E	16,25N,11E	Stoddard			x	x			B			
Hughes Cr.	P	3.0	Mouth	15,33N,12E	Cape Girardeau			x	x			B			
Hughes Cr.	C	2.0	15,33N,12E	20,33N,12E	Cape Girardeau			x	x			B			
Hunke Cr.	C	1.2	Mouth	33,43N,06W	Gasconade			x	x			B			
Humphrey Cr.	P	1.0	Mouth	1,40N,13W	Miller			x	x			B			
Hungry Cr.	C	0.5	Mouth	5,27N,11W	Douglas			x	x			B			
Hungry Mother Cr.	C	7.5	Mouth	18,51N,14W	Howard			x	x			B			
Huldy Hollow	C	2.0	Mouth	28,31N,07W	Texas			x	x			B			
Hunt Br.	P	0.5	22,28N,21W	22,28N,21W	Greene			x	x			B			
Hunt Br.	P	1.0	23,28N,21W	24,28N,21W	Greene			x	x			B			
Hunter Cr.	P	9.0	Mouth	6,26N,15W	Douglas			x	x			[x/A]			
Hunter Cr.	C	3.0	Mouth	20,30N,6E	Wayne			x	x			B			
Hurricane Br.	C	1.5	Mouth	27,59N,26W	Daviess			x	x			B			
Hurricane Cr.	C	4.0	Mouth	Hwy. 139	Carroll			x	x			B			
Hurricane Cr.	C	3.5	Mouth	23,51N,17W	Howard			x	x			B			
Hurricane Cr.	P	12.0	Mouth	35,32N,9E	Bollinger			x	x			[x/A]			
Hurricane Cr.	P	1.5	Mouth	30,24N,12W	Ozark			x	x		x	B			
Hurricane Cr.	P	4.0	Mouth	28,25N,3W	Oregon			x	x			[x/A]			
Hurricane Cr.	C	5.0	28,25N,3W	4,25N,3W	Oregon			x	x			B			
Hurricane Cr.	C	6.0	Mouth	Hwy. 21	Ripley			x	x			B			
Huzzah Cr.	P	34.0	Mouth	1,34N,3W	Crawford	Dent		x	x	x		[x/A]			
Trib. to Huzzah Cr.	C	1.0	Mouth	26,38N,3W	Crawford			x	x			B			
Trib. to Huzzah Cr.	C	1.0	Mouth	29,37N,2W	Crawford			x	x			B			
Trib. to Huzzah Cr.	C	1.0	Mouth	17,35N,2W	Crawford			x	x			B			
Trib. to Huzzah Cr.	C	1.0	Mouth	4,35N,2W	Crawford			x	x			B			
Huzzah Cr.	P	1.0	Mouth	31,31N,6E	Madison			x	x			B			
Hyatts Cr.	P	2.5	Mouth	2,31N,2E	Reynolds			x	x			B			
Hyde Cr.	P	4.0	Mouth	33,31N,16W	Webster			x	x			B			
Imboden Fk.	P	5.0	Mouth	27,34N,2E	Reynolds	Iron		x	x			B			
Indian Br.	C	3.0	Mouth	22,58N,25W	Livingston			x	x			B			
Indian Camp Cr.	P	2.0	Mouth	6,47N,1E	St. Charles			x	x			B			
Indian Camp Cr.	C	5.0	6,47N,1E	4,47N,1W	St. Charles	Warren		x	x			B			
Indian Cr.	C	3.5	Mouth	9,64N,11W	Scotland			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

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												WBC	SCR	DWS	IND
Indian Cr.	C	3.5	Mouth	Hwy. 24	Monroe			x	x			B			
Indian Cr.	C	17.0	Mouth	17,52N,4W	Pike			x	x			B			
Indian Cr.	C	3.0	Mouth	State Line	Jackson			x	x			/x/A			x
Indian Cr.	C	0.8	Mouth	28,40N,09W	Maries			x	x			B			
Indian Cr.	C	3.0	Mouth	8,64N,32W	Gentry			x	x			B			
Indian Cr.	C	4.0	Mouth	17,66N,26W	Harrison			x	x			B			
Indian Cr.	C	3.0	Mouth	5,41N,16W	Morgan			x	x			/x/A	x		
Indian Cr.	P	7.2	Mouth	21,42N,20W	Benton			x	x		x	B			
Trib. to Indian Cr.	P	0.1	Mouth	35,42N,21W	Benton			x	x			B			
Trib. to Indian Cr.	C	1.7	Mouth	34,42N,20W	Benton			x	x			B			
Indian Cr.	C	1.0	Mouth	22,42N,8W	Osage			x	x			B			
Indian Cr.	P	4.0	Mouth	30,30N,9W	Texas			x	x			B			
Indian Cr.	C	3.0	30,30N,9W	27,30N,9W	Texas			x	x			B			
Indian Cr.	C	3.0	Mouth	Sur 2062,38N,8E	Ste. Genevieve			x	x			B			
Indian Cr.	P	7.0	Mouth	10,32N,13E	Cape Girardeau			x	x			B			
Indian Cr.	P	1.0	Mouth	35,35N,3W	Crawford			x	x			B			
Indian Cr.	C	2.0	35,35N,3W	34,35N,3W	Crawford			x	x			B			
Trib. to Indian Cr.	C	0.5	Mouth	34,35N,3W	Crawford			x	x			B			
Trib. to Indian Cr.	C	0.9	Mouth	Hwy 42	Maries			x	x			B			
Indian Cr.	C	1.5	Mouth	17,35N,1E	Washington			x	x			B			
Indian Cr.	P	1.5	Mouth	18,35N,1W	Washington			x	x			B			
Indian Cr.	P	20.0	Mouth	36,39N,01W	Franklin	Washington		x	x		x	B			
Indian Cr.	C	3.0	36,39N,1W	8,38N,1E	Washington			x	x		x	B			
Trib. to Indian Cr.	C	1.0	Mouth	6,40N,1E	Franklin			x	x			B			
Trib. to Indian Cr.	C	2.0	Mouth	15,40N,1W	Washington			x	x			B			
Indian Cr.	P	1.0	Mouth	9,31N,9E	Bollinger			x	x			B			
Indian Cr.	C	0.5	9,31N,9E	4,31N,9E	Bollinger			x	x			B			
Indian Cr.	C	3.0	Mouth	State Line	Stone			x	x			B			
Indian Cr.	P	10.0	Mouth	35,27N,11W	Douglas			x	x			B			
Indian Cr.	C	7.5	35,27N,11W	22,27N,10W	Douglas	Howell		x	x			B			
Indian Cr.	P	4.0	Mouth	7,25N,7E	Butler			x	x			B			
Indian Cr.	C	2.0	7,25N,7E	6,25N,7E	Butler			x	x			B			
Indian Cr.	P	4.0	Mouth	32,35N,4E	St. Francois			x	x			/x/A			
Indian Cr.	P	26.0	Mouth	24,24N,31W	McDonald	Newton	x	x	x		x	/x/A	x		
Indian Cr.	C	2.4	Mouth	Hwy DD	Osage			x	x			B			
Indian Cr.	C	0.2	Mouth	34,44N,08W	Osage			x	x			B			
Trib. to Indian Cr.	C	0.2	Mouth	12,40N,01W	Franklin			x	x			B			
Trib. to Indian Cr.	P	0.9	Mouth	Hwy W	St. Francois			x	x			B			
Trib. to Indian Cr.	C	1.1	Hwy W	27,35N,04E	St. Francois			x	x			B			
Trib. to Indian Cr.	C	0.3	Mouth	07,35N,01W	Washington			x	x			B			
Ingalls Cr.	C	6.2	Mouth	01,35N,21W	Hickory			x	x			B			
Iowa Ditch	P	3.0	Mouth	State Line	Atchison			x	x			B			
Ironton Hollow	C	0.5	Mouth	33,34N,4E	Iron			x	x			B			
Irwins Br.	C	3.0	Mouth	10,59N,30W	De/k/Kalb			x	x			B			
Irwin Cr.	C	6.0	Mouth	State Line	Mercer			x	x			B			
Ishmael Br.	C	1.5	Mouth	9,36N,1E	Washington			x	x			B			
Island Cr.	C	6.0	Mouth	6,61N,32W	Gentry			x	x			B			
Isle du Bois Cr.	P	3.0	Mouth	18,39N,7E	Ste. Genevieve			x	x			B			
Isle du Bois Cr.	C	2.0	18,39N,7E	14,39N,6E	Ste. Genevieve			x	x			B			
Tr. to Isle du Bois Cr.	C	1.0	Mouth	14,39N,6E	Ste. Genevieve			x	x			B			
Isum Cr.	C	0.3	Mouth	30,42N,03E	Jefferson			x	x			B			
Jack Buster Cr.	P	1.5	Mouth	10,41N,14W	Miller			x	x			B			
Jack Cr.	C	0.5	Mouth	19,33N,10E	Bollinger			x	x			B			
Jacks Fk.	P	39.0	Mouth	29,28N,7W	Shannon	Texas		x	x		x	/x/A	x		
Jacktar Hollow	C	5.1	Mouth	22,32N,10W	Texas			x	x			B			
Jacobs Br.	P	1.0	Mouth	2,26N,33W	Newton			x	x			B			
Jakes Cr.	C	10.0	Mouth	24,35N,19W	Dallas			x	x			B			
Jam Up Cr.	P	3.0	Mouth	16,27N,6W	Shannon			x	x			B			
Jam Up Cr.	C	2.0	16,27N,6W	20,27N,6W	Shannon			x	x			B			
Jamerson Cr.	C	3.0	Mouth	29,46N,12W	Boone			x	x			B			
James Bayou	C	5.5	12,23N,16E	28,24N,16E	Mississippi			x	x			B			

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James Bayou	C	3.5	12,23N,16E	26,23N,16E	Mississippi			x	x			B			
James Cr.	P	1.5	Mouth	23,35N,3W	Crawford			x	x			B			
James Cr.	C	1.5	23,35N,3W	28,35N,3W	Crawford			x	x			B			
James Cr.	C	2.5	Mouth	17,35N,2E	Washington			x	x			B			
Trib. to James Cr.	C	1.0	Mouth	22,35N,3W	Crawford			x	x			B			
James R.	P	28.0	10,24N,22W	8,26N,22W	Stone		x	x	x	x		/x/A	x		
James R.	P	26.0	8,26N,22W	Lk. Springfd.	Stone	Greene	x	x	x	x		/x/A	x		
James R.	P	35.0	Hwy. 65	24,29N,17W	Greene	Webster		x	x	x		/x/A	x	x	
Jarvis Hollow	C	1.5	Mouth	23,38N,17W	Camden			x	x			B			
Jenkins Cr.	C	6.0	Mouth	8,62N,36W	Nodaway			x	x			B			
Jenkins Cr.	C	2.5	Mouth	1,24N,26W	Barry			x	x			B			
Jenkins Cr.	P	2.5	Mouth	7,27N,30W	Jasper			x	x			/x/A			
Jenkins Cr.	C	4.0	7,27N,30W	27,27N,30W	Jasper	Newton		x	x			/x/A			
Trib. to Jenkins Cr.	C	1.5	7,27N,29W	19,27N,29W	Jasper	Newton		x	x			B			
Jerktail Br.	C	0.5	Mouth	11,34N,19W	Dallas			x	x			B			
Jesse Cr.	P	1.0	Mouth	21,29N,8E	Bollinger			x	x			B			
Jesse Cr.	C	2.0	21,29N,8E	9,29N,8E	Bollinger			x	x			B			
Joachim Cr.	P	28.0	Mouth	30,39N,5E	Jefferson			x	x			/x/A	x		x
Joachim Cr.	C	2.5	30,39N,5E	4,38N,5E	Jefferson			x	x			/x/A			
Trib. to Joachim Cr.	C	1.0	Mouth	10,39N,4E	Jefferson			x	x			B			
Joes Cr.	C	1.0	Mouth	23,34N,1E	Iron			x	x			B			
Johns Br.	C	1.0	Mouth	32,51N,4W	Pike			x	x			B			
Johns Cr.	C	1.0	Mouth	6,35N,9E	Ste. Genevieve			x	x			B			
Johns Cr.	P	1.0	Mouth	22,36N,1W	Washington			x	x			B			
Johns Cr.	C	2.0	22,36N,1W	27,36N,1W	Washington			x	x			B			
Trib. to Johns Cr.	C	1.0	Mouth	23,36N,1W	Washington			x	x			B			
Johnson Br.	C	1.0	Mouth	29,30N,9W	Texas			x	x			B			
Johnson Cr.	P	3.0	Mouth	36,29N,26W	Lawrence			x	x		x	/x/A			
Johnson Hollow	C	1.0	Mouth	13,27N,20W	Christian			x	x			B			
Jonca Cr.	P	3.5	Mouth	31,37N,8E	Ste. Genevieve			x	x			B			
Jonca Cr.	C	5.0	31,37N,8E	8,36N,7E	Ste. Genevieve			x	x			B			
Jones Br.	C	3.0	Mouth	32,33N,19W	Dallas			x	x			B			
Jones Cr.	C	4.0	Mouth	4,42N,16W	Morgan			x	x			B			
Jones Cr.	C	3.0	Mouth	8,32N,18W	Dallas			x	x			B			
Jones Cr.	C	7.0	Mouth	27,38N,11W	Pulaski			x	x			/x/A			
Jones Cr.	P	3.5	Mouth	15,41N,03E	Jefferson			x	x			B			
Jones Cr.	P	7.0	Mouth	30,27N,30W	Jasper	Newton		x	x	x		/x/A			
Jordan Br.	C	1.0	Mouth	13,30N,26W	Dade			x	x			B			
Jordan Br.	C	1.0	Mouth	11,37N,22W	Hickory			x	x			B			
Jordan Br.	C	1.5	Mouth	32,35N,9E	Perry			x	x			B			
Jordan Br.	C	6.2	Mouth	County///Line	Platte	Buchanan		x	x			B			
Jordan Cr.	C	1.0	Mouth	10,57N,23W	De/k/Kalb			x	x			B			
Jordan Cr.	P	3.8	29,29N,22W	13,29N,22W	Greene			x	x			B			
Jordan Cr.	C	3.5	Mouth	16,49N,23W	Saline			x	x			B			
Jowler Cr.	C	8.9	Mouth	19,54N,34W	Platte			x	x			B			
Joyce Cr.	C	5.0	Mouth	16,24N,28W	Barry			x	x			B			
Judge Cr.	C	3.0	Mouth	19,36N,19W	Dallas			x	x			B			
Jurden Br.	C	2.0	Mouth	15,37N,22W	Hickory			x	x			B			
Kaintuck Hollow Cr.	P	2.4	Mouth	15,36N,09W	Phelps			x	x			B			
Keelstone Br.	C	1.0	Mouth	2,48N,1E	Lincoln			x	x			B			
Keeney Cr.	C	4.0	Mouth	Hwy. 210	Ray			x	x			B			
Kelley Br.	C	0.5	Mouth	1,44N,17W	Moniteau			x	x			B			
Kelley Br.	C	2.0	Mouth	24,50N,13W	Boone			x	x			B			
Kelley Br.	C	5.0	Mouth	15,50N,12W	Boone			x	x			B			
Kelley Hollow	P	0.5	Mouth	27,25N,3W	Oregon			x	x			B			
Kelley Valley	C	2.5	Mouth	23,27N,3E	Wayne	Carter		x	x			B			
Kelley Valley	P	1.0	23,27N,3E	26,27N,3E	Wayne	Carter		x	x			B			
Kelly Hollow	C	1.0	Mouth	3,35N,1W	Washington			x	x			B			
Kenser Cr.	C	2.0	Mouth	21,39N,12W	Miller			x	x			B			
Kessler Cr.	C	2.0	Mouth	21,34N,6E	Madison			x	x			B			
Ketchum Hollow	C	1.5	Mouth	24,22N,27W	Barry			x	x			B			
Kettle Cr.	C	1.0	Mouth	31,58N,26W	Daviess			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
LWW-Livestock & Wildlife Watering
AQL-Protection of Warm Water Aquatic Life

CLF-Cool Water Fishery
CDF-Cold Water Fishery
WBC-Whole Body Contact Recreation

[BTG-Boating and Canoeing] SCR-Secondary Contact Recreation
DWS-Drinking Water Supply
IND-Industrial

TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Kiefer Cr.	P	0.5	Mouth	14,44N,04E	St. Louis			x	x			B			
Kile Cr.	C	1.0	Mouth	28,51N,13W	Boone			x	x			B			
Kimsey Cr.	P	1.0	Mouth	19,59N,39W	Holt			x	x			B			
Kimsey Cr.	C	3.5	19,59N,38W	30,60N,38W	Holt			x	x			B			
Kimsey Cr.	P	6.0	30,60N,38W	34,61N,38W	Holt			x	x			B			
King Br.	C	1.0	Mouth	23,31N,22W	Greene			x	x			B			
King Br.	C	1.5	35,31N,22W	2,30N,22W	Greene			x	x			B			
Kings R.	P	2.0	Mouth	State Line	Barry	Stone		x	x			/x/A	x		
Kings Valley	P	2.0	Mouth	33,23N,30W	McDonald			x	x			B			
Kinnemore Ditch	C	13.0	State Line	5,17N,8E	Dunklin			x	x			B			
Kitten Cr.	C	4.0	Mouth	34,37N,29W	St. Clair	Vernon		x	x			B			
Knob Cr.	C	6.5	Mouth	8,41N,32W	Bates			x	x			B			
Knobby Cr.	P	1.0	Mouth	34,40N,20W	Benton			x	x			B			
Knobby Cr.	C	1.0	34,40N,20W	35,40N,20W	Benton			x	x			B			
Trib. to Knobby Cr.	P	0.9	Mouth	36,40N,20W	Benton			x	x			B			
Knox Br.	C	1.0	Mouth	33,38N,1E	Washington			x	x			B			
Koen Cr.	C	1.0	Mouth	5,36N,5E	St. Francois			x	x			B			
Kolb Br.	C	2.0	Mouth	2,38N,19W	Camden			x	x			B			
Krone Br.	C	1.1	Mouth	29,40N,10W	Maries			x	x			B			
Kruze Cr.	P	0.5	Mouth	36,41N,03E	Jefferson			x	x			B			
Kyle Cr.	C	8.0	23,31N,29W	35,31N,28W	Barton	Dade		x	x			B			
L. Alder Cr.	C	2.0	Mouth	5,35N,27W	Cedar			x	x			B			
L. Apple Cr.	P	3.5	Mouth	13,33N,11E	Cape Girardeau			x	x			B			
L. Apple Cr.	C	1.0	13,33N,11E	24,33N,11E	Cape Girardeau			x	x			B			
Trib. to L. Apple Cr.	C	0.5	Mouth	18,33N,12E	Cape Girardeau			x	x			B			
L. Bear Cr.	C	4.0	Mouth	8,48N,3W	Montgomery			x	x			B			
L. Bear Cr.	C	1.0	Mouth	2,46N,5W	Montgomery			x	x			B			
L. Bear Cr.	C	1.0	Mouth	25,40N,15W	Miller			x	x			B			
L. Beaver Cr.	C	4.0	Mouth	8,37N,8W	Phelps			x	x			/x/A			
Trib. to L. Beaver Cr.	C	2.0	Mouth	16,37N,8W	Phelps			x	x			B			
L. Beaver Cr.	P	9.0	Mouth	36,26N,18W	Taney		x	x	x			/x/A	x		
L. Beaver Cr.	C	4.0	36,26N,18W	17,26N,17W	Douglas			x	x			B			
L. Berger Cr.	P	4.5	Mouth	17,45N,4W	Franklin	Gasconade		x	x			B			
L. Berger Cr.	C	1.5	17,45N,4W	19,45N,4W	Gasconade			x	x			B			
Trib. to L. Berger Cr.	C	1.0	Mouth	4,45N,4W	Gasconade			x	x			B			
L. Black R.	P	25.0	State Line	31,24N,5E	Ripley	Butler	x	x	x			/x/A	x		
L. Black R.	P	16.0	31,24N,5E	9,24N,3E	Butler	Ripley	x	x	x	x		/x/A	x		
L. Blackwater Cr.	C	6.0	Mouth	36,47N,28W	Johnson			x	x			B			
L. Blair Cr.	C	2.0	Mouth	6,29N,2W	Shannon			x	x			B			
L. Blue R.	P	39.1	Mouth	Longview Dam	Jackson			x	x			B	x		
L. Blue R.	C	4.0	20,47N,32W	36,47N,33W	Jackson			x	x			B			
L. Boeuf Cr.	P	1.0	Mouth	10,44N,2W	Franklin			x	x			B			
L. Boeuf Cr.	C	1.0	10,44N,2W	14,44N,2W	Franklin			x	x			B			
Trib. to L. Boeuf Cr.	C	1.0	Mouth	11,44N,2W	Franklin			x	x			B			
Trib. to L. Boeuf Cr.	C	0.5	Mouth	15,44N,2W	Franklin			x	x			B			
L. Bonne Femme Cr.	P	9.0	Mouth	Hwy. 163	Boone			x	x			B			
L. Boone Cr.	C	2.0	Mouth	22,41N,3W	Franklin			x	x			B			
L. Bottom Cr.	C	1.0	Mouth	31,38N,8E	Ste. Genevieve			x	x			B			
L. Bourbeuse Cr.	C	11.0	Mouth	20,39N,7W	Phelps	Maries		x	x			B			
L. Bourbeuse R.	P	13.0	Mouth	26,40N,4W	Franklin	Crawford		x	x			B			
L. Bourbeuse R.	C	2.0	26,40N,4W	3,39N,4W	Crawford			x	x			B			
Trib. to L. Bourbeuse R.	C	1.0	Mouth	4,39N,4W	Crawford			x	x			B			
Trib. to L. Bourbeuse R.	C	2.0	Mouth	4,39N,4W	Crawford			x	x			B			
Trib. to L. Bourbeuse R.	C	0.1	Mouth	04,39N,07W	Maries			x	x			B			
Trib. to L. Bourbeuse R.	P	1.0	Mouth	02,39N,04W	Crawford			x	x			B			
L. Brazil Cr.	P	1.5	Mouth	18,38N,1W	Washington			x	x			B			
L. Brazil Cr.	C	0.5	18,38N,1W	19,38N,1W	Washington			x	x			B			
L. Brush Cr.	C	7.0	Mouth	10,59N,17W	Macon			x	x			B			
L. Brushy Cr.	C	2.0	Mouth	18,27N,4E	Wayne			x	x			B			
L. Buffalo Cr.	P	6.0	Mouth	11,41N,19W	Morgan			x	x			B			
L. Calumet Cr.	P	1.0	Mouth	2,53N,1W	Pike			x	x			B			

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												WBC	SCR	DWS	IND
L. Calumet Cr.	C	1.0	2,53N,1W	10,53N,1W	Pike			x	x			B			
L. Calvey Cr.	C	1.0	Mouth	9,42N,2E	Franklin			x	x			B			
L. Cane Cr.	C	2.0	State Line	26,22N,5E	Butler		x	x	x			B			
L. Cedar Cr.	C	6.0	Mouth	5,48N,11W	Boone			x	x			B			
L. Chariton R.	P	13.5	Mouth	5,52N,17W	Chariton			x	x			B			
L. Clear Cr.	C	4.0	Mouth	1,36N,28W	St. Clair			x	x			B			
Trib. to L. Clear Cr.	C	1.0	Mouth	2,36N,28W	St. Clair			x	x			B			
L. Clear Cr.	C	1.0	Mouth	8,34N,30W	Vernon			x	x			B			
L. Coon Cr.	C	4.0	Mouth	6,30N,29W	Barton			x	x			B			
L. Courtois Cr.	P	2.0	Mouth	2,39N,1W	Washington			x	x			B			
L. Courtois Cr.	C	2.0	2,39N,1W	15,39N,1W	Washington			x	x			B			
L. Crane Cr.	C	6.0	Mouth	4,25N,25W	Stone	Barry		x	x			B			
L. Crooked Cr.	C	3.5	Mouth	20,57N,11W	Shelby			x	x			B			
L. Crooked Cr.	P	2.5	Mouth	33,31N,9E	Bollinger			x	x			/x/A			
L. Crooked Cr.	C	2.5	33,31N,9E	32,31N,9E	Bollinger			x	x			B			
L. Dardenne Cr.	C	4.0	Mouth	10,46N,1E	St. Charles			x	x			B			
L. Deer Cr.	C	9.0	Mouth	01,38N,21W	Benton			x	x			B			
Trib. to L. Deer Cr.	C	1.0	Mouth	24,39N,21W	Benton			x	x			B			
L. Deer Cr.	C	3.0	Mouth	31,42N,30W	Bates			x	x			B			
L. Dry Fk.	P	5.0	Mouth	8,37N,7W	Phelps			x	x			B			
L. Dry Fk.	C	4.5	8,37N,7W	5,36N,7W	Phelps			x	x			B			
L. Drywood Cr.	P	17.0	Mouth	13,34N,32W	Vernon			x	x			B			
L. Drywood Cr.	C	10.0	13,34N,32W	20,33N,31W	Vernon	Barton		x	x			B			
Trib. to L. Drywood Cr.	C	1.1	Mouth	02,34N,32W	Vernon			x	x			B			
L. E. Fk. Locust Cr.	C	9.0	Mouth	30,62N,19W	Sullivan			x	x			B			
L. Fabius R.	C	21.5	Mouth	17,61N,12W	Knox			x	x			B			
L. Finley Cr.	P	5.0	Mouth	5,28N,17W	Webster			x	x			B			
Trib. to L. Finley Cr.	P	2.0	Mouth	7,28N,17W	Webster			x	x			B			
L. Flat Cr.	P	3.5	Mouth	25,25N,27W	Barry			x	x		x	/x/A		x	
L. Flat Cr.	C	2.0	25,25N,27W	34,25N,27W	Barry			x	x			B			
L. Flora Cr.	P	2.5	Mouth	Sur 2201,31N,14E	Cape Girardeau			x	x			B			
L. Fourche a Renault Cr.	P	1.0	Mouth	26,38N,1E	Washington			x	x			B			
L. Fourche a Renault Cr.	C	3.0	26,38N,1E	2,37N,1E	Washington			x	x			B			
L. Fox R.	P	17.0	Mouth	34,67N,10W	Clark	Scotland		x	x			B			
L. Fox R.	C	4.5	34,67N,10W	19,67N,10W	Scotland			x	x			B			
L. Fox Cr.	P	0.4	Mouth	31,44N,03E	St. Louis			x	x			B			
L. Gravois Cr.	P	4.0	Mouth	1,40N,16W	Miller			x	x			/x/A			
L. Gravois Cr.	C	3.0	1,40N,16N	30,41N,15W	Miller			x	x			B			
L. Gravois Cr.	P	5.0	Mouth	21,42N,17W	Morgan			x	x			/x/A		x	
L. Hazel Cr.	P	1.5	Mouth	29,36N,1E	Washington			x	x			B			
L. Hazel Cr.	C	0.5	29,36N,1E	32,36N,1E	Washington			x	x			B			
L. Hogles Cr.	P	1.2	Mouth	09,39N,23W	Benton			x	x			B			
L. Hogles Cr.	C	1.5	09,39N,23W	16,39N,23W	Benton			x	x			B			
L. Horseshoe Cr.	C	5.4	Mouth	11,48N,29W	Jackson	Lafayette		x	x			B			
L. Hunting Slough	C	5.0	Mouth	14,22N,6E	Butler		x	x	x			B			
L. Hurricane Cr.	C	1.0	Mouth	1,54N,22W	Carroll			x	x			B			
L. Hurricane Cr.	C	3.0	Mouth	7,24N,3W	Oregon			x	x			B			
L. Indian Cr.	P	2.0	Mouth	19,32N,13E	Cape Girardeau			x	x			B			
L. Indian Cr.	C	2.0	19,32N,13E	25,32N,13E	Cape Girardeau			x	x			B			
L. Indian Cr.	P	8.0	Mouth	30,40N,2E	Franklin	Washington		x	x			B			
L. Indian Cr.	C	1.0	30,40N,2E	31,40N,2E	Washington			x	x			B			
Trib. to L. Indian Cr.	C	1.0	Mouth	26,40N,1E	Washington			x	x			B			
Trib. to Indian Cr.	C	0.4	Mouth	32,38N,03W	Washington			x	x			B			
L. Indian Cr.	C	2.5	Mouth	19,27N,10W	Douglas	Howell		x	x			B			
L. Lake Cr.	C	4.0	Mouth	31,29N,5E	Wayne			x	x			B			
L. Lead Cr.	C	4.0	27,50N,2W	20,50N,2W	Lincoln			x	x			B			
L. Lindley Cr.	C	3.0	Mouth	15,34N,20W	Dallas			x	x			B			
L. Lost Cr.	C	1.5	Mouth	18,46N,3W	Warren			x	x			B			
L. Lost Cr.	P	1.5	Mouth	26,37N,1W	Washington			x	x			B			
L. Lost Cr.	P	4.5	Mouth	28,25N,33W	Newton			x	x			B			
L. Loutre Cr.	C	10.0	Mouth	5,49N,6W	Montgomery			x	x			B			

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L. Maries Cr.	P	7.0	Mouth	24,42N,11W	Osage			x	x	x		B			
L. Maries Cr.	C	1.0	24,42N,11W	23,42N,11W	Osage			x	x			B			
Trib. to L. Maries Cr.	C	1.0	Mouth	30,42N,10W	Osage			x	x			B			
L. Maries R.	P	6.0	Mouth	12,40N,11W	Maries			x	x			B			
Trib. to L. Maries R.	C	0.5	Mouth	3,40N,10W	Maries			x	x			B			
L. Maries R.	C	12.0	12,40N,11W	28,39N,11W	Maries			x	x			B			
L. Meramec R.	P	2.5	Mouth	7,41N,2E	Franklin			x	x			B			
L. Mill Cr.	P	4.8	Mouth	33,38N,21W	Hickory			x	x			B			
Trib. to L. Mill Cr.	C	0.6	Mouth	24,38N,22W	Hickory			x	x			B			
L. Monegaw Cr.	C	4.0	Mouth	36,39N,27W	St. Clair			x	x			B			
L. Moniteau Cr.	P	3.0	Mouth	3,45N,14W	Moniteau			x	x			/x/A			
L. Moniteau Cr.	C	4.0	3,45N,14W	18,45N,14W	Moniteau			x	x			B			
Trib. to L. Moniteau Cr.	C	3.0	Mouth	11,45N,15W	Moniteau			x	x			B			
L. Muddy Cr.	C	3.0	Mouth	17,60N,27W	Daviess			x	x			B			
L. Muddy Cr.	C	5.5	Mouth	State Line	Mercer			x	x			B			
L. Muddy Cr.	C	7.3	Mouth	18,46N,22W	Pettis			x	x			B			
L. Muddy Cr.	P	2.0	Mouth	Sur 2219,32,10E	Cape Girardeau	Bollinger		x	x			B			
L. Muddy Cr.	C	5.5	Sur 2219,32,10E	Sur 3144,33,10E	Bollinger			x	x			B			
Trib. to L. Muddy Cr.	C	2.0	Mouth	04,46N,22W	Pettis			x	x			B			
Trib. to L. Muddy Cr.	C	0.4	Mouth	14, 46N, 22W	Pettis			x	x			B			
Trib. to L. Muddy Cr.	C	2.9	Mouth	06,46N,22W	Pettis			x	x			B			
[Trib. to L. Muddy Cr.	C	0.4	Mouth	14,46N,22W	Pettis			x	x/			B			
L. Mussel Cr.	C	3.0	Mouth	17,61N,17W	Adair			x	x			B			
L. N. Fk. Spring R.	C	13.0	Mouth	30,31N,32W	Jasper	Barton	x	x	x			B			
Trib. to L. N. Fk. Spring R.	C	1.0	Mouth	29,31N,32W	Barton			x	x			B			
L. N. Fk. White R.	P	5.0	Mouth	36,24N,16W	Ozark			x	x	x		B			
L. N. Fk. White R.	C	6.0	36,24N,16W	3,24N,16W	Ozark			x	x	x		B			
L. Niangua R.	P	43.0	Mouth	26,36N,19W	Camden	Dallas		x	x	x		/x/A	x		
L. Niangua R.	C	7.0	26,36N,19W	20,35N,19W	Dallas			x	x			/x/A	x		
L. No Cr.	C	4.0	14,62N,23W	30,63N,22W	Grundy			x	x			B			
L. Noix Cr.	C	1.5	Mouth	28,54N,2W	Pike			x	x			B			
L. Osage R.	P	6.3	Mouth	18,37N,31W	Vernon			x	x			B			
L. Osage R.	C	16.0	18,37N,31W	18,37N,33W	Vernon			x	x			B			
L. Otter Cr.	C	4.0	Mouth	6,55N,11W	Monroe			x	x			B			
L. Otter Cr.	C	3.0	Mouth	4,56N,27W	Caldwell			x	x			B			
L. Paddy Cr.	C	3.5	Mouth	36,33N,11W	Texas			x	x			B			
L. Pike Cr.	C	2.0	Mouth	3,26N,2W	Carter			x	x			B			
L. Pine Cr.	C	1.5	Mouth	12,33N,12W	Texas			x	x			B			
L. Piney Cr.	C	2.0	Mouth	7,33N,12W	Pulaski	Texas		x	x			B			
L. Piney Cr.	P	6.0	Mouth	25,37N,9W	Phelps			x	x	x		/x/A	x		
L. Piney Cr.	P	15.0	25,37N,9W	4,35N,8W	Phelps			x	x		x	/x/A	x		
L. Piney Cr.	C	4.0	4,35N,8W	21,35N,8W	Phelps			x	x		x	B			
L. Platte R.	P	10.5	Mouth	Smithville Dam	Platte	Clay		x	x			B		x	
L. Platte R.	C	19.0	24,55N,32W	28,57N,31W	Clinton			x	x			B		x	
L. Pomme de Terre R.	C	6.0	Mouth	25,31N,21W	Polk	Greene		x	x			B			
L. Pomme de Terre R.	P	14.9	Mouth	03,37N,23W	Benton	Hickory		x	x			/x/A	x		
L. Pomme de Terre R.	C	7.0	Mouth	22,38N,23W	Benton	Hickory		x	x	x		/x/A	x		
Trib. to L. Pomme de Terre	P	1.6	Mouth	09,38N,22W	Benton	Hickory		x	x			B			
L. Profits Cr.	P	1.5	Mouth	30,42N,11W	Osage			x	x			B			
L. Profits Cr.	C	0.5	30,42N,11W	30,42N,11W	Osage			x	x			B			
L. Ramsey Cr.	C	1.0	Mouth	16,52N,1E	Pike			x	x			B			
L. Richland Cr.	C	5.0	Mouth	12,44N,18W	Morgan			x	x			/x/A	x		
L. Rock Cr.	C	2.0	Mouth	17,32N,5E	Madison			x	x			B			
L. Rocky Cr.	P	1.0	Mouth	12,28N,3W	Shannon			x	x			B			
L. Rocky Cr.	C	1.0	12,28N,3W	1,28N,3W	Shannon			x	x			B			
Trib. to L. Rocky Cr.	C	1.0	Mouth	1,28N,3W	Shannon			x	x			B			
L. Sac R.	P	29.0	Mouth	McDaniel Lk Dam	Polk	Greene		x	x	x		/x/A	x		
L. Sac R.	P	1.0	19,30N,21W	17,30N,21W	Greene			x	x			B			

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IND-Industrial

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
L. Sac R.	C	3.0	17,30N,21W	Fellows Lake Dam	Greene			x	x			B			
L. Sac R.	C	2.0	19,30N,20W	21,30N,20W	Greene			x	x			B			
L. Saline Cr.	P	5.0	Mouth	29,41N,14W	Miller			x	x			B			
L. Saline Cr.	P	9.0	Mouth	24,36N,8E	Ste. Genevieve			x	x			B			
L. Sandy Cr.	C	6.0	Mouth	9,51N,1W	Lincoln			x	x			B			
Trib. to L. Sandy Cr.	C	1.5	Mouth	Sur 1686,51,1W	Lincoln			x	x			B			
L. Shaver Cr.	C	4.9	Mouth	04,45N,20W	Pettis			x	x			B			
L. Shawnee Cr.	P	2.0	Mouth	29,29N,3W	Shannon			x	x			B			
L. Shawnee Cr.	C	2.0	29,29N,3W	4,28N,3W	Shannon			x	x			B			
L. Shoal Cr.	C	4.5	Mouth	14,66N,16W	Putnam			x	x			B			
L. Shoal Cr.	C	3.3	Mouth	24,51N,32W	Clay			x	x			B			
L. Shoal Cr.	P	1.5	Mouth	13,36N,2W	Crawford			x	x			/x/A			
L. Shoal Cr.	C	2.0	13,36N,2W	24,36N,2W	Crawford			x	x			B			
L. Sinking Cr.	P	4.0	Mouth	26,32N,3W	Shannon	Dent		x	x			B			
L. Sinking Cr.	C	1.0	26,32N,3W	26,32N,3W	Dent			x	x			B			
L. Sni-a-bar Cr.	P	5.0	Mouth	30,50N,27W	Lafayette			x	x			B			
L. Sni-a-bar Cr.	C	7.0	30,50N,27W	16,49N,27W	Lafayette			x	x			B			
L. Splice Cr.	P	1.0	Mouth	16,47N,14W	Moniteau			x	x			B			
L. Splice Cr.	C	2.5	16,47N,14W	20,47N,14W	Moniteau			x	x			B			
Trib. to L. Splice Cr.	C	1.0	Mouth	19,47N,14W	Moniteau			x	x			B			
L. St. Francis R.	P	27.7	Mouth	32,35N,07E	Madison	St. Francois		x	x	x		/x/A	x	x	
L. St. Francis R.	C	0.8	32,35N,7E	32,35N,7E	Madison	St. Francois		x	x			B			
L. Sugar Cr.	C	4.0	Mouth	10,49N,1E	Lincoln			x	x			B			
L. Sugar Cr.	P	11.0	34,22N,32W	State Line	McDonald		x	x	x	x		/x/A	x		
L. Tabo Cr.	C	7.0	Mouth	3,50N,25W	Lafayette			x	x			B			
L. Tarkio Cr.	P	17.5	Mouth	19,63N,39W	Holt			x	x			B	x		
L. Tarkio Cr.	C	14.5	19,63N,39W	13,65N,38W	Atchison			x	x			B			
Old Ch. L. Tarkio Cr.	P	6.0	Mouth	22,61N,39W	Holt			x	x			B			
Old Ch. L. Tarkio Cr.	C	8.0	22,61N,39W	20,62N,39W	Holt			x	x			B			
L. Tarkio Ditch	P	5.5	Mouth	11,60N,39W	Holt			x	x			B			
L. Taum Sauk Cr.	C	1.5	Mouth	25,33N,2E	Reynolds			x	x			B			
L. Tavern Cr.	C	1.0	Mouth	36,46N,7W	Callaway			x	x			B			
L. Tavern Cr.	C	1.4	05,39N,11W	07,39N,11W	Maries			x	x			B			
Trib. to L. Tavern Cr.	C	1.3	Mouth	15,40N,11W	Maries			x	x			B			
Trib. to L. Tavern Cr.	C	1.2	Mouth	22,40N,11W	Maries			x	x			B			
Trib. to L. Tavern Cr.	C	1.1	Mouth	27,40N,11W	Maries			x	x			B			
Trib. to L. Tavern Cr.	C	1.1	Mouth	34,40N,11W	Maries			x	x			B			
L. Tavern Cr.	C	4.0	Mouth	34,42N,13W	Miller	Cole		x	x	x		/x/A			
L. Tavern Cr.	P	1.0	33,39N,12W	34,39N,12W	Miller			x	x			B			
L. Tavern Cr.	C	1.5	34,39N,12W	10,38N,12W	Miller			x	x			B			
L. Tavern Cr.	P	11.0	Mouth	5,39N,11W	Miller	Maries		x	x			/x/A			
L. Tavern Cr.	C	1.0	Mouth	11,44N,2E	Franklin			x	x			B			
L. Tebo Cr.	C	4.5	Mouth	29,42N,22W	Benton			x	x			B			
Trib. to L. Tebo Cr.	C	1.5	Mouth	30,42N,22W	Benton			x	x			B			
Trib. to L. Tebo Cr.	C	0.9	Mouth	21,42N,22W	Benton			x	x			B			
L. Third Cr.	C	4.0	Mouth	23,42N,7W	Osage			x	x			B			
L. Third Fk. Platte R.	C	20.0	Mouth	27,60N,32W	De/k/Kalb			x	x			B			
L. Turkey Cr.	C	2.0	Mouth	36,40N,22W	Benton			x	x			B			
Trib. to L. Turkey Cr.	C	1.0	Mouth	3,39N,22W	Benton			x	x			B			
L. Walnut Cr.	C	2.5	18,60N,16W	14,60N,17W	Macon			x	x			B			
L. Walnut Cr.	C	3.0	Mouth	26,47N,24W	Johnson			x	x			B			
L. Weaubleau Cr.	C	3.3	Mouth	9,36N,23W	St. Clair	Hickory		x	x			/x/A			
L. Weaubleau Cr.	P	5.7	Mouth	09,36N,23W	St. Clair	Hickory		x	x	x		B	x		
Trib. to L. Weaubleau Cr.	C	0.5	Mouth	12,36N,23W	Hickory			x	x			B			
L. Whitewater Cr.	P	21.0	Mouth	16,33N,9E	Cape Girardeau	Bollinger		x	x			/x/A			
L. Whitewater Cr.	C	1.0	16,33N,9E	17,33N,9E	Bollinger			x	x			B			
Tr. to L. Whitewater Cr.	C	0.5	Mouth	8,33N,9E	Bollinger			x	x			B			
L. Wilson Cr.	P	3.5	Mouth	25,32N,21W	Polk			x	x			B			
L. Wilson Cr.	C	2.0	25,32N,21W	32,32N,20W	Dallas			x	x			B			
L. Wyaconda R.	P	6.0	Mouth	34,64N,8W	Clark			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
LWW-Livestock & Wildlife Watering
AQL-Protection of Warm Water Aquatic Life

CLF-Cool Water Fishery
CDF-Cold Water Fishery
WBC-Whole Body Contact Recreation

[BTG-Boating and Canoeing] SCR-Secondary Contact Recreation
DWS-Drinking Water Supply
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[BTG]

[BTG]

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Lick Fk. Gasconade R.	P	13.5	6,29N,14W	26,29N,16W	Wright			x	x			B			
Lick Fk. Gasconade R.	C	4.5	26,29N,16W	19,29N,16W	Wright	Webster		x	x			B			
Lick Log Cr.	P	2.0	Mouth	29,29N,8E	Bollinger			x	x			B			
Lick Log Cr.	C	1.0	29,29N,8E	31,29N,8E	Bollinger			x	x			B			
Trib. to Lick Log Cr.	C	1.0	Mouth	33,29N,8E	Bollinger			x	x			B			
Liggett Cr.	C	1.0	Mouth	9,26N,5E	Butler			x	x			B			
Limestone Cr.	P	7.0	Mouth	24,30N,27W	Dade			x	x	x		/x/A			
Lincoln Cr.	C	7.0	Mouth	14,60N,36W	Andrew			x	x			B			
Trib. to Lincoln Cr.	C	1.0	Mouth	13,60N,37W	Andrew			x	x			B			
Lindley Cr.	P	22.0	Mouth	20,34N,20W	Hickory	Dallas		x	x			B			
Lindley Cr.	C	2.0	20,34N,20W	32,34N,20W	Dallas			x	x			B			
Trib. to Lindley Cr.	C	3.0	Mouth	34,35N,20W	Dallas			x	x			B			
Line Cr.	C	6.8	Mouth	Lake Waukomis	Platte			x	x			B			
Liner Cr.	C	1.0	Mouth	9,21N,12W	Ozark			x	x			B			
Linn Cr.	C	3.0	Mouth	36,66N,9W	Clark			x	x			B			
Linn Cr.	C	7.0	Mouth	7,43N,8W	Osage			x	x			B			
Little Cr.	C	8.0	Mouth	31,65N,28W	Harrison			x	x			B			
Little Cr.	C	3.0	Mouth	11,46N,28W	Johnson			x	x			B			
Little Cr.	C	1.0	Mouth	25,51N,12W	Boone			x	x			B			
Little Cr.	C	1.5	Mouth	3,40N,5E	Jefferson			x	x			B			
Little Cr.	P	3.0	Mouth	8,30N,7E	Wayne			x	x			B			
Little Cr.	C	5.0	Mouth	17,24N,15W	Ozark			x	x			B			
Trib. to Little Cr.	C	1.0	Mouth	18,24N,15W	Ozark			x	x			B			
Little Cr.	C	2.0	Mouth	36,22N,14W	Ozark			x	x			B			
Little Cr.	C	8.0	Mouth	1,25N,8W	Howell			x	x			B			
Little Cr.	C	4.0	Mouth	26,32N,4W	Shannon	Dent		x	x			B			
Little Cr.	C	2.0	Mouth	20,34N,1W	Iron			x	x			B			
Little Cr.	C	1.0	Mouth	12,32N,3E	Iron			x	x			B			
Little Cr.	P	2.5	Mouth	36,28N,6E	Wayne			x	x			B			
Little Cr.	C	2.5	Mouth	Hwy CC	Franklin			x	x			B			
Little R.	P	7.0	Mouth	State Line	Mercer			x	x			B			
Littleby Cr.	C	15.0	Mouth	24,51N,8W	Audrain			x	x			B			
Locust Cr.	P	84.0	Mouth	State Line	Chariton	Putnam		x	x			B	x	x	
Log Cr.	C	7.0	Mouth	6,55N,28W	Caldwell			x	x			B	x		
Logan Cr.	C	5.5	Mouth	30,46N,7W	Callaway			x	x			B			
Logan Cr.	C	3.0	Mouth	19,44N,13W	Cole			x	x			B			
Trib. to Logan Cr.	C	1.0	Mouth	28,44N,13W	Cole			x	x			B			
Logan Cr.	P	5.5	Mouth	36,23N,3E	Ripley			x	x			B			
Logan Cr.	C	6.0	36,23N,3E	9,23N,3E	Ripley			x	x			B			
Logan Cr.	P	19.0	22,29N,2E	25,31N,2W	Reynolds			x	x			/x/A	x		
Long Br.	C	29.0	7,53N,8W	7,52N,11W	Monroe	Audrain		x	x			B			
Long Br.	C	3.0	Mouth	29,66N,38W	Atchison			x	x			B			
Long Br.	P	6.0	Mouth	6,62N,34W	Nodaway			x	x			B			
Long Br.	C	11.5	6,62N,34W	8,64N,34W	Nodaway			x	x			B			
Long Br.	C	5.0	Mouth	19,62N,31W	Gentry			x	x			B			
Long Br.	C	1.9	Mouth	24,40N,11W	Maries			x	x			B			
Long Br.	C	3.0	Mouth	33,37N,19W	Camden			x	x			B			
Long Br.	C	0.8	Mouth	27,45N,25W	Johnson			x	x			B			
Long Br.	C	13.0	Mouth	11,59N,20W	Linn			x	x			B		x	
Long Br.	C	7.0	Mouth	18,55N,18W	Chariton			x	x			B			
Long Br.	P	5.3	Mouth	06,45N,23W	Pettis	Johnson		x	x			B			
Long Br.	C	4.5	06,45N,23W	09,45N,24W	Pettis	Johnson		x	x			B			
Trib. to Long Br.	C	0.4	Mouth	07,45N,23W	Pettis			x	x			B			
Long Branch Cr.	C	13.0	5,58N,14W	19,60N,14W	Macon			x	x			B			
Long Cr.	C	3.0	Mouth	4,55N,28W	Caldwell			x	x			B			
Long Cr.	C	4.0	Mouth	26,54N,18W	Chariton			x	x			B			
Long Cr.	C	2.3	Mouth	16,40N,08W	Maries			x	x			B			
Long Gravel Br.	P	1.0	Mouth	5,33N,5E	Madison			x	x			B			
Long Grove Br.	P	0.9	Mouth	31,48N,20W	Pettis			x	x			B			
Long Grove Br.	C	3.0	31,48N,20W	07,47N,20W	Pettis			x	x			B			
Long Run	C	1.5	Mouth	27,23N,16W	Ozark			x	x			B			
Longan Br.	C	2.0	26,41N,16W	14,41N,16W	Miller			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Longs Cr.	C	1.0	Mouth	Sur 768,33N,9E	Bollinger			x	x			B			
Loose Cr.	P	7.0	Mouth	16,44N,9W	Osage			x	x			B			
Loose Cr.	C	9.0	16,44N,9W	10,43N,9W	Osage			x	x			B			
Lost Camp Cr.	C	5.0	Mouth	20,26N,8W	Howell			x	x			B			
Lost Cr.	C	22.0	Mouth	36,61N,32W	De/k/Kalb	Gentry		x	x			B			
Lost Cr.	C	5.0	15,64N,16W	5,64N,15W	Schuyler			x	x			B			
Lost Cr.	P	7.0	Mouth	15,46N,3W	Warren			x	x	x		B			
Lost Cr.	C	4.0	15,46N,3W	2,46N,3W	Warren			x	x			B			
Lost Cr.	P	7.0	Mouth	19,37N,1E	Crawford	Washington		x	x			B			
Lost Cr.	C	3.0	19,37N,1E	29,37N,1E	Washington			x	x			B			
Trib. to Lost Cr.	C	1.0	Mouth	21,37N,1W	Washington			x	x			B			
Trib. to Lost Cr.	C	1.0	Mouth	18,37N,1E	Washington			x	x			B			
Lost Cr.	P	1.0	Mouth	5,35N,3E	Washington			x	x			B			
Lost Cr.	C	2.0	5,35N,3E	9,35N,3E	Washington			x	x			B			
Lost Cr.	P	8.5	State Line	14,25N,33W	Newton			x	x	x		/x/A	x		
Lottie Cr.	C	0.5	Mouth	35,24N,12W	Ozark			x	x			B			
Lotts Cr.	C	10.0	Mouth	8,66N,29W	Worth	Harrison		x	x			B			
Loutre Cr.	C	4.0	Mouth	30,46N,4W	Warren			x	x			B			
Loutre R.	P	36.0	Mouth	5,48N,6W	Montgomery			x	x			B			
Loutre R.	C	13.5	5,48N,6W	36,50N,8W	Montgomery	Audrain		x	x			B			
Trib. to Loutre R.	C	4.0	Mouth	20,50N,7W	Audrain			x	x			B			
Loutre Slough	P1	5.5	Mouth	19,46N,4W	Warren			x	x			B			
Lovejoy Cr.	P	1.0	Mouth	19,33N,14E	Cape Girardeau			x	x			B			
Lovejoy Cr.	C	1.5	19,33N,14E	24,33N,13E	Cape Girardeau			x	x			B			
Lower Peavine Cr.	C	1.0	Mouth	11,40N,7W	Maries			x	x			B			
Ludecker Hollow	C	1.5	Mouth	4,23N,14W	Ozark			x	x			B			
Lumpkin Cr.	C	0.5	20,47N,32W	29,47N,32W	Jackson			x	x			B			
Luther Br.	C	0.6	Mouth	32,38N,06W	Phelps			x	x			B			
Luystown Cr.	C	2.0	Mouth	16,44N,8W	Osage			x	x			B			
Luzon Br.	P	0.7	Mouth	13,44N,10W	Osage			x	x			B			
Luzon Br.	C	1.0	13,44N,10W	24,44N,10W	Osage			x	x			B			
Lyman Cr.	C	1.0	Mouth	30,40N,3W	Crawford			x	x		x	/x/A			
Mace Cr.	C	6.0	Mouth	25,59N,36W	Andrew			x	x			B			
Macks Cr.	P	8.0	Mouth	Hwy. 54	Camden			x	x			B			
Macks Cr.	C	2.5	Hwy. 54	23,37N,19W	Camden			x	x			B			
Trib. to Macks Cr.	C	1.0	Mouth	6,37N,18W	Camden			x	x			B			
Trib. to Macks Cr.	C	1.0	Mouth	18,37N,18W	Camden			x	x			B			
Madden Cr.	C	4.5	Mouth	29,36N,8E	Ste. Genevieve			x	x			B			
Madden Cr.	C	1.0	Mouth	35,39N,3E	Washington			x	x			B			
Maddox Cr.	C	2.5	35,48N,9W	23,48N,9W	Callaway			x	x			B			
Mag Cr.	C	0.1	Mouth	26,40N,10W	Maries			x	x			B			
Mahans Cr.	P	4.0	Mouth	9,28N,4W	Shannon			x	x	x		B			
Mahans Cr.	C	4.1	9,28N,4W	28,28N,04W	Shannon			x	x			B			
Main Ditch	C	14.0	18,22N,6E	10,24N,6E	Butler		x	x	x			B			
Main Ditch	P	11.5	14,16N,10E	30,18N,11E	Pemiscot			x	x			B		x	
Main Ditch	P	24.0	8,19N,10E	19,23N,10E	Dunklin			x	x			B			
Main Ditch	C	6.0	19,23N,10E	20,24N,10E	Dunklin	Stoddard		x	x			B			
Main Ditch #8	P	19.0	27,18N,10E	3,19N,12E	Pemiscot			x	x			B			
Main Ditch #8	C	12.0	3,19N,12E	18,20N,14E	Pemiscot			x	x			B			
Malaruni Cr.	C	1.0	Mouth	19,56N,3W	Ralls			x	x			B			
Maline Cr.	C	1.0	Mouth	Bellefontaine Rd.	St. Louis City	St. Louis		x	x			B			
Malone Cr.	P	6.5	Mouth	34,30N,10E	Bollinger			x	x			B			
Malone Cr.	C	1.5	34,30N,10E	28,30N,10E	Bollinger			x	x			B			
Mammoth Cr.	P	0.4	Mouth	11,39N,03E	Jefferson			x	x			B			
Manacle Cr.	C	2.0	Mouth	35,49N,11W	Callaway			x	x			B			
Maple Slough	C	16.0	Mouth	11,26N,15E	New Madrid	Mississippi		x	x			B			
Marais des Cygnes R.	P	32.0	19,38N,29W	State Line	Bates		x	x	x			/x/A	x	x	
Marble Cr.	P	14.5	Mouth	29,33N,4E	Madison	Iron		x	x	x		B	x		
Marble Cr.	C	1.0	29,33N,4E	20,33N,4E	Iron			x	x			B			
Trib. to Marble Cr.	C	1.5	Mouth	22,33N,4E	Iron			x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Trib. to Marble Cr.	C	0.5	Mouth	18,32N,5E	Madison			x	x			B			
Maries R.	P	41.5	Mouth	24,48N,40N,10W	Osage	Maries		x	x	x		/x/A	x		
Maries R.	C	14.0	24,40N,10W	32,39N,10W	Maries			x	x			B			
Trib. to Maries R.	C	0.2	Mouth	18,38N,10W	Maries			x	x			B			
Trib. to Maries R.	C	0.7	Mouth	14,38N,11W	Maries			x	x			B			
Trib. to Maries R.	C	1.7	Mouth	Hwy V	Maries			x	x			B			
Trib. to Maries R.	C	0.5	Mouth	06,39N,10W	Maries			x	x			B			
Trib. to L. Maries R.	C	0.1	Mouth	09,38N,11W	Maries			x	x			B			
Trib. to L. Maries R.	C	0.9	Mouth	11,39N,11W	Maries			x	x			B			
Trib. to L. Maries R.	C	1.5	Mouth	09,40N,10W	Maries			x	x			B			
Trib. to Maries R.	C	2.5	Mouth	21,42N,10W	Osage			x	x			B			
Marlin Cr.	P	3.5	Mouth	34,48N,20W	Pettis			x	x			B			
Marlin Cr.	C	3.0	34,48N,20W	04,47N,20W	Pettis			x	x			B			
Marlowe Cr.	P	5.5	Mouth	30,66N,31W	Worth			x	x			B			
Marlowe Cr.	C	1.0	30,66N,31W	19,66N,31W	Worth			x	x			B			
Marmaton R.	P	49.5	19,38N,29W	State Line	Vernon		x	x	x			B			
Marney Br.	C	5.0	Mouth	3,43N,15W	Moniteau			x	x			B			
Marrowbone Cr.	P	11.0	Mouth	36,58N,28W	Daviess			x	x			B			
Marrowbone Cr.	C	11.0	36,58N,28W	15,58N,29W	Daviess			x	x			B			
Marsh Cr.	P	1.5	Mouth	34,32N,5E	Madison			x	x			B			
Marsh Cr.	C	1.0	34,32N,5E	33,32N,5E	Madison			x	x			B			
Marshalls Cr.	C	9.5	Mouth	33,40N,27W	Henry			x	x			B			
Martin Br.	C	0.5	Mouth	2,40N,04W	Franklin			x	x			B			
Martin Cr.	C	5.0	Mouth	27,64N,25W	Harrison	Mercer		x	x			B			
Martin Hollow	C	1.0	Mouth	1,32N,7E	Madison			x	x			B			
Mary's Cr	P	1.0	Mouth	03,39N,01W	Washington			x	x			B			
Mash Cr.	P	0.5	Mouth	12,30N,4W	Shannon			x	x			B			
Mash Cr.	C	2.0	12,30N,4W	35,31N,4W	Shannon			x	x			B			
Mash Hollow	C	1.0	Mouth	33,24N,24W	Stone			x	x			B			
Mason Springs Valley	P	1.0	State Line	21,24N,34W	Newton			x	x			B			
Mass Cr.	C	2.0	Mouth	16,66N,37W	Nodaway			x	x			B			
Massey Cr.	C	6.0	2,44N,33W	20,45N,33W	Cass			x	x			B			
Trib. to Massey Cr.	C	3.0	Mouth	33,45N,33W	Cass			x	x			B			
Massie Cr.	P	7.0	Mouth	10,46N,4W	Warren			x	x			B			
Massie Cr.	C	4.0	10,46N,4W	36,47N,4W	Warren			x	x			B			
Mattese Cr.	P	0.9	Mouth	Baumgartner Rd.	St. Louis			x	x			B			
Maupin Cr.	P	1.3	Mouth	36,41N,02E	Jefferson			x	x			B			
Max Cr.	C	3.0	Mouth	26,24N,19W	Taney			x	x			B			
May Br.	C	0.5	Mouth	Hwy AN	Franklin			x	x			B			
May Br.	C	3.5	Mouth	30,48N,22W	Saline	Pettis		x	x			B			
Mayfield Cr.	P	1.0	Mouth	21,32N,10E	Bollinger			x	x			B			
Mayfield Cr.	C	2.0	21,32N,10E	18,32N,10E	Bollinger			x	x			B			
Mayhen Br.	C	1.3	Mouth	18,28N,08W	Texas			x	x			B			
Maze Cr.	C	2.0	Mouth	8,32N,25W	Dade			x	x			B			
McCarty Cr.	C	9.6	Mouth	31,34N,29W	Vernon			x	x			B			
McClanahan Cr.	C	2.0	Mouth	Sur 911,36N,11E	Perry			x	x			B			
McCoy Cr.	P	1.5	Mouth	6,47N,2E	St. Charles			x	x			B			
McCoy Cr.	C	3.5	6,47N,2E	Sur 386(10), 47N,1E	St. Charles			x	x			B			
McDade Br.	P	0.5	Mouth	9,39N,5W	Crawford			x	x			B			
McDade Br.	C	1.5	9,39N,5W	17,39N,5W	Crawford			x	x			B			
McElroy Cr.	C	2.0	Mouth	Hwy. 275	Atchison			x	x			B			
McGee Br.	C	3.7	Mouth	03,44N,20W	Pettis			x	x			B			
McGee Cr.	P	5.0	Mouth	20,28N,8E	Wayne			x	x			B			
McGuire Br.	C	5.0	Mouth	7,56N,32W	Clinton			x	x			B			
McKenzie Cr.	P	6.0	Mouth	23,29N,3E	Wayne			x	x			B			
McKenzie Cr.	C	4.5	23,29N,3E	34,30N,3E	Wayne			x	x			B			
Trib. to McKenzie Cr.	C	2.0	Mouth	27,29N,3E	Wayne			x	x			B			
Trib. to McKenzie Cr.	C	1.5	Mouth	11,29N,3E	Wayne			x	x			B			
McKenzie Cr.	C	4.0	Mouth	06,37N,29W	Vernon			x	x			B			
McKill Cr.	P	2.0	Mouth	34,34N,33W	Vernon			x	x			B			
McKill Cr.	C	2.0	34,34N,33W	35,34N,33W	Vernon			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
LWW-Livestock & Wildlife Watering
AQL-Protection of Warm Water Aquatic Life

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WBC-Whole Body Contact Recreation

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DWS-Drinking Water Supply
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
McKinney Cr.	C	0.5	Mouth	23,48N,9W	Callaway			x	x			B			
McLean Cr.	C	3.5	Mouth	16,49N,2E	Lincoln			x	x			B			
McMullen Br.	C	1.0	Mouth	18,39N,5E	Jefferson			x	x			B			
McVey Br.	C	1.5	Mouth	3,21N,16W	Ozark			x	x			B			
Medicine Cr.	P	30.5	Mouth	9,61N,22W	Livingston	Grundy		x	x			B			
Medlen Cr.	C	1.0	Mouth	6,43N,15W	Moniteau			x	x			B			
Melton Cr.	C	2.0	Mouth	21,36N,29W	Vernon			x	x			B			
Menorkenut Slough	C	25.0	Mouth	7,25N,8E	Butler			x	x			B			
Meramec R.	P	22.0	Mouth	Hwy. 141	St. Louis			x	x			/x/A	x	x	x
Meramec R.	P	26.0	Hwy. 141	Big R.	St. Louis	Jefferson		x	x	x		/x/A	x	x	x
Meramec R.	P	37.0	Big R.	Meramec State Pk.	Jefferson	Franklin		x	x	x		/x/A	x	x	x
Meramec R.	P	75.0	Meramec State Pk.	22,38N,5W	Franklin	Crawford		x	x	x		/x/A	x		x
Meramec R.	P	10.0	22,38N,5W	Hwy. 8	Crawford			x	x	x	x	/x/A	x		
Meramec R.	P	35.0	Hwy. 8	Hwy. 72	Crawford	Dent		x	x	x		/x/A	x		
Meramec R.	C	4.0	Hwy. 72	33,34N,4W	Dent			x	x	x		B			
Trib. to Meramec R.	C	2.0	Mouth	2,37N,5W	Crawford			x	x			B			
Trib. to Meramec R.	C	1.0	Mouth	29,38N,5W	Crawford			x	x			B			
Trib. to Meramec R.	C	1.0	Mouth	8,37N,5W	Crawford			x	x			B			
Trib. to Meramec R.	C	1.0	Mouth	2,36N,5W	Crawford			x	x			B			
Trib. to Meramec R.	C	1.0	Mouth	26,37N,5W	Crawford			x	x			B			
Trib. to Meramec R.	C	2.0	Mouth	26,36N,5W	Crawford			x	x			B			
Trib. to Meramec R.	C	2.0	Mouth	30,36N,4W	Crawford			x	x			B			
Trib. to Meramec R.	C	1.0	Mouth	23,36N,5W	Crawford			x	x			B			
Trib. to Meramec R.	C	0.9	Mouth	04,38N,03W	Crawford			x	x			B			
Merrills Br.	C	3.0	Mouth	19,58N,8W	Marion			x	x			B			
Miami Cr.	P	18.0	Mouth	10,40N,32W	Bates			x	x			B			
Miami Cr.	C	11.5	10,40N,32W	4,41N,33W	Bates			x	x			B			
M. Fk. Chariton R.	P	24.5	Mouth	Thomas Hill Res. Dam	Chariton	Randolph		x	x			B		x	
M. Fk. Chariton R.	C	15.0	8,56N,15W	3,58N,15W	Macon			x	x			B			
M. Fk. Fourche a Renault Cr.	C	4.0	23,37N,1E	25,37N,1E	Washington			x	x			B			
M. Fk. Salt R.	P	49.0	9,54N,9W	16,56N,13W	Monroe	Macon	x	x	x			B	x	x	
Mid. Fk. Shoal Cr.	C	1.5	Mouth	35,36N,2W	Crawford			x	x			B			
Mid. Richland Cr.	C	9.0	Mouth	Hwy. 52	Morgan			x	x			/x/A	x		
Middle Big Cr.	C	8.0	Mouth	Lake Winnebago Dam	Cass			x	x			B			
Middle Br. Squaw Cr.	C	3.0	Mouth	5,62N,38W	Holt			x	x			B			
Middle Brushy Cr.	C	7.0	Mouth	32,27N,3E	Wayne	Carter		x	x			/x/A			
Middle Cr.	C	5.0	Mouth	14,62N,25W	Grundy			x	x			B			
Middle Fabius R.	P	57.0	Mouth	22,64N,12W	Lewis	Scotland		x	x			/x/A	x	x	
Middle Fork	C	3.2	Mouth	20,43N,03W	Franklin			x	x			B			
Middle Fk.	P	5.5	Mouth	28,25N,6W	Oregon			x	x			/x/A	x		
Middle Fk.	C	12.0	28,25N,6W	4,24N,7W	Oregon	Howell		x	x			B			
Middle Fk. Big Cr.	P	2.0	Mouth	19,31N,7E	Madison			x	x			B			
Middle Fk. Big Cr.	C	1.0	19,31N,7E	18,31N,7E	Madison			x	x			B			
Trib. M. Fk. Big Cr.	C	1.0	Mouth	24,31N,6E	Madison			x	x			B			
Middle Fk. Black R.	P	15.0	Mouth	24,34N,1W	Reynolds	Iron		x	x	x		/x/A			
Middle Fk. Black R.	C	1.0	24,34N,1W	13,34N,1W	Iron			x	x	x		/x/A			
Middle Fk. Grand R.	P	25.0	Mouth	12,66N,31W	Gentry	Worth	x	x	x			/x/A	x		
Middle Fk. Grand R.	C	2.5	12,66N,31W	State Line	Worth			x	x			B	x		
Trib. M. Fk. Grand R.	C	2.0	Mouth	State Line	Worth			x	x			B			
Middle Fk. Lost Cr.	C	7.0	Mouth	27,60N,31W	De/k/Kalb			x	x			B			
Middle Fk. Salt R.	C	22.0	16,56N,13W	23,59N,14W	Macon			x	x			B			
Trib. M. Fk. Salt R.	C	1.0	Mouth	22,59N,14W	Macon			x	x			B			
Middle Fk. Tebo Cr.	C	6.5	Mouth	6,43N,24W	Henry			x	x			B			
Trib. M. Fk. Tebo Cr.	C	1.0	Mouth	36,44N,25W	Henry			x	x			B			
Trib. M. Fk. Tebo Cr.	C	0.5	9,43N,24W	3,43N,24W	Henry			x	x			B			
Trib. M. Fk. Tebo Cr.	C	0.5	Mouth	5,43N,24W	Henry			x	x			B			
Trib. M. Fk. Tebo Cr.	C	3.5	Mouth	/36,43N,24W/ 36,44N,25W	Henry			x	x			B			
Trib. M. Fk. Tebo Cr.	C	1.0	17,43N,24W	17,43N,24W	Henry			x	x			B			
Middle Indian Cr.	P	2.5	Mouth	16,24N,30W	Newton			x	x			B			

[BTG]

IRR Irrigation LWW Livestock & Wildlife Watering AQL Cool Water Fishery CLF Cold Water Fishery CDF Cold Water Fishery WBC Secondary Contact Recreation SCR Secondary Contact Recreation DWS Drinking Water Supply IND Drinking Water Supply

IRR-Irrigation
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Middle Indian Cr.	C	3.0	16,24N,30W	12,24N,30W	Newton			x	x			B			
Middle Prong	P	3.0	Mouth	24,35N,4W	Dent			x	x			B			
Middle Prong	C	2.0	24,35N,4W	29,35N,3W	Crawford			x	x			B			
Middle Prong	C	1.0	Mouth	29,30N,3W	Shannon			x	x			B			
Middle R.	P	8.5	Mouth	4,45N,9W	Callaway			x	x			B			
Middle R.	C	11.5	4,45N,9W	2,46N,10W	Callaway			x	x			B			
Middle Tarkio Cr.	C	10.0	Mouth	State Line	Atchison		x	x	x			B			
Middlebrook Cr.	C	0.8	Mouth	08,34N,04E	St. Francois			x	x			B			
Mikes Cr.	P	3.0	Mouth	13,22N,30W	McDonald		x	x	x			/x/A			
Mill Br.	P	1.0	Mouth	3,38N,2E	Washington			x	x			B			
Mill Br.	C	1.0	3,38N,2E	2,38N,2E	Washington			x	x			B			
Mill Cr.	C	5.0	Mouth	Sur 1710,51N,1W	Lincoln			x	x			B			
Trib. to Mill Cr.	C	1.0	Mouth	33,51N,1W	Lincoln			x	x			B			
Mill Cr.	P	10.0	Mouth	2,59N,38W	Holt			x	x			B			
Mill Cr.	C	1.0	Mouth	1,59N,38W	Holt			x	x			B			
Mill Cr.	P	0.4	Mouth	Hwy FF	Maries			x	x			B			
Mill Cr.	C	1.4	Hwy FF	22,39N,08W	Maries			x	x			B			
Trib. to Mill Cr.	C	0.1	Mouth	10,40N,08W	Maries			x	x			B			
Mill Cr.	P	9.5	Mouth	State Line	Nodaway			x	x			B			
Trib. to Mill Cr.	C	1.0	Mouth	13,66N,38W	Nodaway			x	x			B			
Mill Cr.	P	0.5	Mouth	03,37N,10W	Phelps			x	x			B			
Mill Cr.	C	1.0	Mouth	17,56N,28W	Caldwell			x	x			B			
Mill Cr.	P	1.5	Mouth	30,39N,14W	Miller			x	x			B			
Mill Cr.	C	2.0	30,39N,14W	28,39N,14W	Miller			x	x			B			
Mill Cr.	P	3.5	Mouth	Hwy. 7	Camden			x	x			/x/A		x	
Trib. to Mill Cr.	C	1.5	Mouth	14,37N,15W	Camden			x	x			B			
Mill Cr.	P	1.5	Mouth	9,36N,18W	Dallas			x	x		x	B			
Mill Cr.	P	1.5	9,36N,18W	8,36N,18W	Dallas			x	x			B			
Mill Cr.	P	6.2	Mouth	9,37N,21W	Hickory			x	x	x		B			
Mill Cr.	C	2.8	09,37N,21W	15,37N,21W	Hickory			x	x	x		B			
Trib. to Mill Cr.	C	0.3	Mouth	14,37N,21W	Hickory			x	x			B			
Trib. to Mill Cr.	C	0.8	Mouth	16,37N,21W	Hickory			x	x			B			
Mill Cr.	P	1.0	Mouth	29,37N,9W	Phelps			x	x			/x/A			
Mill Cr.	P	5.0	29,37N,9W	Yelton Spring	Phelps			x	x		x	/x/A			
Mill Cr.	P	3.5	Yelton Spring	5,35N,9W	Phelps			x	x			B			
Mill Cr.	P	0.5	Mouth	03,37N,10W	Phelps			x	x			B			
Mill Cr.	C	4.0	Mouth	3,36N,8E	Ste. Genevieve			x	x			B			x
Mill Cr.	P	12.0	Mouth	8,37N,3E	St. Francois	Washington		x	x			B			
Mill Cr.	C	2.0	8,37N,3E	18,37N,3E	Washington			x	x			B			
Trib. to Mill Cr.	C	0.5	Mouth	19,37N,3E	Washington			x	x			B			
Mill Cr.	P	3.0	Mouth	36,36N,3E	Washington			x	x			B			
Mill Cr.	C	0.5	36,36N,3E	36,36N,3E	Washington			x	x			B			
Mill Cr.	P	2.0	Mouth	8,27N,1W	Carter			x	x			/x/A			
Mill Cr.	C	2.0	8,27N,1W	1,27N,2W	Carter			x	x			B			
Mill Cr.	P	3.5	Mouth	32,33N,7E	Madison			x	x			B			
Mill Cr.	C	1.0	32,33N,7E	33,33N,7E	Madison			x	x			B			
Mill Cr.	C	2.0	Mouth	30,31N,5E	Wayne	Madison		x	x			B			
Mill Cr.	P	2.5	Mouth	24,21N,33W	McDonald			x	x			/x/A			
Mill Cr.	C	4.1	Mouth	17,46N,33W	Jackson	Cass		x	x			B			
Mill Spring Cr.	P	1.0	Mouth	3,40N,8W	Maries			x	x			B			
Miller Cr.	C	6.0	Mouth	3,26N,4E	Wayne			x	x			B			
Millers Cr.	C	1.5	Mouth	14,47N,11W	Callaway			x	x			B			
Milligan Cr.	C	8.0	Mouth	18,53N,12W	Monroe			x	x			B			
Mine a Breton Cr.	P	11.0	7,38N,2E	Hwy. 185	Washington			x	x			B			
Mine a Breton Cr.	C	2.5	Hwy. 185	23,37N,2E	Washington			x	x			B			
Trib. to Mine a Breton Cr.	C	1.0	Mouth	24,37N,2E	Washington			x	x			B			
Mineral Br.	C	2.0	Mouth	17,44N,15W	Moniteau			x	x			B			
Trib. to Mineral Br.	C	0.5	Mouth	16,44N,15W	Moniteau			x	x			B			
Mineral Cr.	C	4.3	Mouth	20,44N,25W	Johnson			x	x			B			
Trib. to Mineral Cr.	C	1.0	Mouth	18,44N,25W	Johnson			x	x			B			
Mineral Fk.	P	15.0	Mouth	7,38N,2E	Washington			x	x	x		/x/A			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Trib. to Mineral Fk.	C	2.0	Mouth	33,39N,3E	Washington			x	x			B			
Mineral Spring Hollow	C	0.8	Mouth	30,31N,09W	Texas			x	x			B			
Mingo Cr.	C	2.0	Mouth	5,26N,8E	Stoddard			x	x			B			
Mingo Ditch	P	16.0	Mouth	32,27N,8E	Stoddard			x	x			B			
Minnow Br.	C	1.0	Mouth	25,41N,20W	Benton			x	x			B			
Minor Cr.	C	1.5	Mouth	14,33N,3E	Iron			x	x			B			
Mission Cr.	C	2.4	Hwy. 45	17,54N,36W	Platte			x	x			B			
Mississippi R.	P	124.5	State Line	Ohio R.	Pemiscot	Mississippi	x	x	x			B	x	x	x
Mississippi R.	P	200.5	Ohio R.	Missouri R.	Mississippi	St. Charles	x	x	x			B	x	x	x
Mississippi R.	P	165.0	Missouri R.	Des Moines R.	St. Charles	Clark		x	x			/x/A	x	x	x
Missouri R.	P	100.0	Mouth	Gasconade R.	St. Louis	Gasconade	x	x	x			B	x	x	x
Missouri R.	P	129.0	Gasconade R.	Chariton R.	Gasconade	Chariton	x	x	x			B	x	x	x
Missouri R.	P	125.0	Chariton R.	Kansas R.	Chariton	Jackson	x	x	x			B	x	x	x
Missouri R.	P	179.0	Kansas R.	State Line	Chariton	Atchison	x	x	x			B	x	x	x
Trib. to Missouri R.	P1	2.5	Mouth	21,44N,1E	St. Charles			x	x			B			
Trib. to Missouri R.	C	6.0	Mouth	23,51N,23W	Saline			x	x			B			
Trib. to Missouri R.	P	1.5	Mouth	26,47N,14W	Moniteau			x	x			B			
Trib. to Missouri R.	C	0.5	26,47N,14W	26,47N,14W	Moniteau			x	x			B			
Trib. to Missouri R.	C	2.6	Mouth	07,44N,01W	Franklin			x	x			B			
Mistaken Cr.	P	6.0	Mouth	20,42N,7W	Osage			x	x			B			
Mistaken Cr.	C	1.5	20,42N,7W	30,42N,7W	Osage			x	x			B			
Moccasin Cr.	C	2.0	Mouth	26,63N,33W	Gentry			x	x			B			
Monegaw Cr.	P	2.0	Mouth	21,38N,27W	St. Clair			x	x			/x/A	x		
Monegaw Cr.	C	10.0	21,38N,27W	9,39N,28W	St. Clair			x	x			B	x		
Moniteau Cr.	P	20.5	Mouth	Hwy. 124	Howard			x	x			B	x		
Moniteau Cr.	C	13.5	Hwy. 124	16,52N,14W	Howard	Randolph		x	x			B			
Moniteau Cr.	P	17.0	Mouth	16,46N,15W	Cole	Moniteau		x	x			B	x		
Moniteau Cr.	C	15.5	16,46N,15W	21,46N,15W	Moniteau	Cooper		x	x			B	x		
Montgomery Br.	C	6.5	15,38N,23W	6,37N,22W	Hickory			x	x			B			
Mooney Br.	C	2.0	Mouth	3,33N,10W	Texas			x	x			B			
Moore Br.	C	3.8	Mouth	27,35N,31W	Vernon			x	x			B			
Moore Br.	P	2.5	Mouth	34,35N,33W	Vernon			x	x			B			
Moore Br.	C	2.5	34,35N,33W	33,35N,33W	Vernon			x	x			B			
Moreau R.	P	33.0	Mouth	1,43N,13W	Cole			x	x			/x/A	x		
Trib. to Moreau R.	C	0.5	Mouth	6,43N,12W	Cole			x	x			B			
Morgan Cr.	C	1.5	Mouth	17,43N,14W	Cole			x	x			B			
Mormon Fk.	C	13.5	Mouth	19,42N,32W	Bates			x	x			B			
Morris Br.	C	1.0	Mouth	12,49N,7W	Callaway			x	x			B			
Morris Hollow	C	1.5	Mouth	17,22N,16W	Ozark			x	x			B			
Moss Cr.	P	23.0	Mouth	7,50N,25W	Carroll			x	x			B			
Trib. to Moss Cr.	P	0.5	Mouth	12,52N,24W	Carroll			x	x			B			
Moss Hollow	C	1.0	Mouth	26,42N,5E	Jefferson			x	x			B			
Mossy Cr.	C	0.2	Mouth	07,40N,21W	Benton			x	x			B			
Mound Br.	C	10.0	Mouth	13,40N,31W	Bates			x	x			B			
Mound Cr.	C	4.0	Mouth	Hwy. 65	Livingston			x	x			B			
Mountain Cr.	P	6.0	Mouth	23,35N,17W	Laclede			x	x			B			
Mouse Cr.	C	1.0	15,47N,32W	22,47N,32W	Jackson			x	x			B			
Mozingo Cr.	C	8.5	Mouth	36,65N,35W	Nodaway			x	x			B			
Mud Cr.	C	9.0	Mouth	20,55N,13W	Monroe	Randolph		x	x			B			
Mud Cr.	P	4.5	36,56N,26W	23,55N,26W	Caldwell			x	x			B			
Trib. to Mud Cr.	C	0.5	Mouth	12,55N,26W	Caldwell			x	x			B			
Trib. to Mud Cr.	C	1.0	Mouth	12,55N,26W	Caldwell			x	x			B			
Trib. to Mud Cr.	C	2.0	Mouth	24,55N,26W	Caldwell			x	x			B			
Mud Cr.	C	1.0	Mouth	08,34N,04E	St. Francois			x	x			B			
Mud Cr.	C	7.5	23,55N,26W	18,54N,26W	Caldwell	Ray		x	x			B			
Mud Cr.	C	1.5	Mouth	5,45N,13W	Cole			x	x			B			
Mud Cr.	C	2.0	Mouth	36,52N,18W	Howard			x	x			B			
Mud Cr.	C	3.0	Mouth	22,26N,7E	Butler			x	x			B			
Mud Cr. Ditch	P	3.5	28,56N,25W	36,56N,26W	Livingston	Caldwell		x	x			B			
Old Chan. Mud Cr.	P	3.0	Mouth	29,56N,25W	Livingston			x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Mud Ditch	C	9.0	Mouth	11,23N,15E	New Madrid			x	x			B			
Muddy Cr.	C	3.5	Mouth	Hwy. 71	Nodaway			x	x			B			
Muddy Cr.	C	3.5	Mouth	21,59N,26W	Daviess			x	x			B			
Muddy Cr.	C	6.0	Mouth	27,60N,30W	Daviess	De/k/Kalb		x	x			B			
Muddy Cr.	P	36.5	Mouth	22,66N,23W	Grundy	Mercer		x	x			B			
Muddy Cr.	C	10.0	Mouth	5,58N,20W	Linn			x	x			B			
Muddy Cr.	C	27.0	Mouth	14,61N,22W	Livingston	Sullivan		x	x			B			
Trib. to Muddy Cr.	C	2.0	Mouth	29,60N,22W	Grundy			x	x			B			
Muddy Cr.	P	55.0	Mouth	17,45N,23W	Pettis	Johnson		x	x			B			
Muddy Cr.	C	8.2	17,45N,23W	34,45N,24W	Pettis	Johnson		x	x			B			
Trib. to Muddy Cr.	C	1.3	Mouth	06,45N,22W	Pettis			x	x			B			
Trib. to Muddy Cr.	C	1.7	Mouth	10,46N,21W	Pettis			x	x			B			
Trib. to Muddy Cr.	C	1.0	Mouth	04,45N,22W	Pettis			x	x			B			
Trib. to Muddy Cr.	C	1.1	Mouth	32,46N,22W	Pettis			x	x			B			
Trib. to Muddy Cr.	C	1.5	Mouth	24,46N,23W	Pettis			x	x			B			
Muddy Cr.	C	9.0	Mouth	22,52N,21W	Saline			x	x			B			
Muddy Cr.	C	3.0	Mouth	19,38N,30W	Vernon	Bates		x	x			B			
Muddy Cr.	C	3.0	Mouth	Sur 3017,39N,7E	Jefferson			x	x			B			
Muddy Fk.	C	8.0	Mouth	35,54N,31W	Clay			x	x			B			
Muddy Shawnee Cr.	P	3.0	8,33N,13E	19,33N,13E	Cape Girardeau			x	x			B			
Muddy Shawnee Cr.	C	2.0	19,33N,13E	31,33N,13E	Cape Girardeau			x	x			B			
Mulberry Cr.	C	8.0	Mouth	33,41N,33W	Bates			x	x			B			
Mulberry Cr.	C	3.9	Mouth	04,34N,29W	Vernon			x	x			B			
Mulkey Cr.	C	5.0	Mouth	28,48N,25W	Johnson			x	x			B			
Muncas Cr.	P	3.0	Mouth	4,53N,16W	Chariton			x	x			B			
Muncas Cr.	C	6.0	4,53N,16W	6,54N,15W	Randolph			x	x			B			
Murphy Cr.	C	4.0	Mouth	8,36N,14W	Camden			x	x			B			
Trib. to Murphy Cr.	C	1.0	Mouth	34,37N,14W	Camden			x	x			B			
Trib. to Murphy Cr.	C	0.5	Mouth	4,36N,14W	Camden			x	x			B			
Musco Cr.	P	1.5	Mouth	26,34N,6E	Madison			x	x			B			
Musco Cr.	C	1.0	26,34N,6E	22,34N,6E	Madison			x	x			B			
Mussel Fork Cr.	P	49.0	Mouth	18,58N,17W	Chariton	Macon		x	x			B			
Mussel Fork Cr.	C	29.0	18,58N,17W	2,62N,18W	Macon	Sullivan		x	x			B		x	
Mutton Hollow	P	2.5	Mouth	13,31N,20W	Greene			x	x			B			
Myatt Cr.	C	11.5	State Line	5,22N,7W	Howell			x	x			B			
N. Ashley Cr.	P	0.5	35,32N,7W	34,32N,7W	Dent			x	x			B			
N. Ashley Cr.	C	8.0	34,32N,7W	34,32N,8W	Dent	Texas		x	x			B			
N. Blackbird Cr.	C	17.0	2,64N,17W	Hwy. 129	Putnam			x	x			B			
N. Bridges Cr.	C	3.0	17,22N,11W	2,22N,11W	Ozark			x	x			B			
N. Cobb Cr.	P	6.0	Mouth	2,33N,15W	Laclede			x	x			B			
N. Deepwater Cr.	C	4.0	Mouth	35,41N,29W	Henry	Bates		x	x			B			
N. Dry Sac R.	P	3.5	Mouth	10,31N,22W	Polk			x	x			B			
N. Dry Sac R.	C	4.5	10,31N,22W	19,31N,21W	Greene			x	x			B			
N. Elkhorn Cr.	P	4.0	17,23N,31W	14,23N,31W	McDonald			x	x			B			
N. Fabius R.	P	82.0	24,59N,6W	26,67N,14W	Marion	Schuyler	x	x	x			B	x	x	
N. Fabius R.	C	1.0	26,67N,14W	State Line	Schuyler			x	x			B			
N. Fk. Batts Cr.	C	1.0	Mouth	18,52N,16W	Howard			x	x			B			
N. Fk. Beaver Cr.	C	2.0	Mouth	33,30N,12W	Wright			x	x			B			
N. Fk. Blackwater R.	C	10.0	12,46N,27W	12,47N,28W	Johnson			x	x			B			
N. Fk. Buffalo Cr.	P	2.0	20,24N,1E	18,24N,1E	Ripley			x	x			B			
N. Fk. Buffalo Cr.	C	4.5	18,24N,1E	21,24N,1W	Ripley			x	x			B			
N. Fk. Charrette Cr.	C	5.0	35,46N,02W	34,47N,02W	Warren			x	x			B			
N. Fk. Cuivre R.	P	28.5	11,49N,1W	24,51N,3W	Lincoln	Pike		x	x			/x/A	x		
N. Fk. Cuivre R.	C	8.0	24,51N,3W	28,52N,3W	Pike			x	x			B			
Trib. to N. Fk. Cuivre R.	C	2.0	Mouth	25,51N,2W	Lincoln			x	x			B			
N. Fk. Finney Cr.	C	3.0	17,49N,21W	4,49N,21W	Saline			x	x			B			
N. Flat Cr.	C	3.5	Mouth	22,44N,23W	Pettis			x	x			B			
N. Fk. Fourche Cr.	P	3.0	Mouth	Hwy. 142	Ripley			x	x			B			
N. Fk. Fourche Cr.	C	4.5	Hwy. 142	19,23N,1E	Ripley			x	x			B			
N. Fk. Fourche a Renault Cr.	C	3.0	23,37N,1E	30,37N,2E	Washington			x	x			B			

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												WBC	SCR	DWS	IND
N. Fk. Hollow	C	1.5	Mouth	7,26N,4E	Butler			x	x			B			
N. Fk. Jones Cr.	P	0.5	Mouth	15,41N,03E	Jefferson			x	x			B			
N. Fk. L. Meramec R.	P	2.0	7,41N,2E	8,41N,2E	Franklin			x	x			B			
N. Fk. L. Meramec R.	C	1.0	8,41N,2E	16,41N,2E	Franklin			x	x			B			
N. Fk. M Fabius R.	C	16.0	22,64N,12W	21,66N,14W	Scotland	Schuyler		x	x			B			
N. Fk. N. Fabius R.	C	10.0	Mouth	2,66N,13W	Scotland			x	x			B			
N. Fk. S. Fabius R.	C	30.0	29,62N,11W	5,64N,14W	Knox	Schuyler		x	x			B			
N. Fk. Salt R.	P	45.0	28,56N,9W	2,62N,14W	Monroe	Adair	x	x	x			B	x	x	
N. Fk. Salt R.	C	14.5	2,62N,14W	12,64N,15W	Adair	Schuyler		x	x			B			
N. Fk. Spring Cr.	C	1.0	Mouth	18,22N,14W	Ozark			x	x			B			
Trib. to N. Fk. Spring R.	C	3.0	Mouth	31,33N,30W	Barton			x	x			B			
N. Fk. Spring R.	P	14.5	Mouth	1,29N,32W	Jasper			x	x			B	x		
N. Fk. Spring R.	C	51.5	1,29N,32W	20,30N,28W	Jasper	Dade		x	x			B			
N. Fk. Web Cr.	P	1.5	Mouth	31,29N,2E	Reynolds			x	x			B			
N. Fk. Web Cr.	C	3.0	31,29N,2E	34,29N,1E	Reynolds			x	x			B			
N. Fk. White R.	P	22.0	3,22N,12W	2,24N,12W	Ozark		x	x	x		x	/x/A	x		
N. Fk. White R.	P	28.0	34,25N,11W	17,27N,11W	Douglas		x	x	x		x	/x/A	x		
N. Fk. White R.	C	7.0	17,27N,11W	23,28N,12W	Douglas	Texas		x	x			B			
Trib. to N. Fk. White R.	C	1.0	Mouth	34,23N,12W	Ozark			x	x			B			
N. Indian Cr.	P	5.0	24,24N,31W	36,25N,30W	Newton			x	x			B			
Trib. to N. Indian Cr.	P	1.5	Mouth	19,24N,30W	Newton			x	x			B			
N. Moreau Cr.	P	50.0	1,43N,13W	4,44N,16W	Cole	Moniteau		x	x			/x/A	x		
Trib. to N. Moreau Cr.	C	0.5	Mouth	23,44N,13W	Cole			x	x			B			
Trib. to N. Moreau Cr.	C	1.0	Mouth	9,44N,14W	Moniteau			x	x			B			
Trib. to N. Moreau Cr.	C	0.5	Mouth	9,44N,13W	Cole			x	x			B			
Trib. to N. Moreau Cr.	C	2.0	Mouth	33,45N,15W	Moniteau			x	x			B			
Trib. to N. Moreau Cr.	C	2.0	Mouth	18,44N,15W	Moniteau			x	x			B			
Trib. to N. Moreau Cr.	C	2.0	Mouth	12,44N,16W	Moniteau			x	x			B			
Trib. to N. Moreau Cr.	C	2.0	Mouth	2,44N,16W	Moniteau			x	x			B			
Trib. to N. Moreau Cr.	C	0.5	Mouth	4,44N,15W	Moniteau			x	x			B			
N. Mud Cr.	C	5.5	Mouth	6,55N,26W	Caldwell			x	x			B			
N. Pr. Beaverdam Cr.	C	3.0	5,24N,4E	19,25N,4E	Ripley			x	x			B			
Tr. to N. Pr.															
Beaverdam Cr.	C	1.0	Mouth	19,25N,4E	Ripley			x	x			B			
N. Prong Jacks Fk.	P	8.0	29,28N,7W	11,28N,8W	Texas			x	x			B			
N. Prong Jacks Fk.	C	7.0	11,28N,8W	25,29N,9W	Texas			x	x			B			
N. Prong L. Black R.	P	3.0	9,24N,3E	32,25N,3E	Ripley			x	x			B			
N. Prong L. Black R.	C	10.0	32,25N,3E	35,26N,2E	Ripley	Carter		x	x			/x/A			
N. Wyaconda R.	P	14.0	26,65N,9W	18,66N,10W	Clark	Scotland		x	x			B			
N. Wyaconda R.	C	8.0	18,66N,10W	31,67N,11W	Scotland			x	x			B			
N. Fk. Grindstone Cr.	C	1.5	20,48N,12W	16,48N,12W	Boone			x	x			B			
Nance Cr.	C	0.5	Mouth	15,24N,14W	Ozark			x	x			B			
Narrows Cr.	C	2.0	Mouth	7,56N,13W	Macon			x	x			B			
Nations Cr.	P	4.5	Mouth	15,34N,9E	Perry			x	x			B			
Nations Cr.	C	2.0	15,34N,9E	8,34N,9E	Perry			x	x			B			
Natural Bridge Holl.	C	2.0	Mouth	17,22N,26W	Barry			x	x			B			
Naylor Cr.	C	1.0	Mouth	7,51N,34W	Platte			x	x			B			
Neals Cr.	C	3.0	Mouth	16,34N,1W	Iron			x	x			B			
New #7 Chute	C	2.0	35,23N,16E	5,22N,17E	Mississippi		x	x	x			B			
New Franklin Ditch	P	6.0	6,16N,12E	23,17N,12E	Pemiscot			x	x			B			
New Hope Cr.	C	5.1	Mouth	31,54N,30W	Clay			x	x			B			
Newtonia Br.	P	1.0	Mouth	36,26N,30W	Newton			x	x			B			
Niangua R.	P	5.0	Mouth	Power Plant	Camden			x	x			/x/A	x		
Niangua R.	C	6.0	Power Plant	Tunnel Dam	Camden			x	x			/x/A	x		
Niangua R.	P	4.5	Lake Niangua	Dallas County Line	Camden			x	x			B			
Niangua R.	P	24.0	Dallas County												
Niangua R.	P	6.0	Line	11,35N,18W	Dallas			x	x	x		/x/A	x		
Niangua R.	P	51.0	11,35N,18W	Bennett Spring Cr.	Dallas			x	x	x	x	/x/A	x		
Niangua R.	P		Bennett Spr												
Niangua R.	P		Cr.	33,32N,18W	Dallas	Webster		x	x	x		/x/A	x		
Trib. to Niangua R.	C	1.0	Mouth	17,37N,17W	Camden			x	x			B			
Nichols Cr.	C	3.0	Mouth	17,60N,37W	Holt			x	x			B			

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Trib. to Nichols Cr.	C	1.0	Mouth	29,61N,37W	Holt			x	x			B			
Nishnabotna R.	P	8.0	Mouth	State Line	Atchison		x	x	x			B	x	x	
Old Ch. Nishnabotna R.	P	13.0	30,64N,41W	1,65N,42W	Atchison			x	x			B			
Old Ch. Nishnabotna R.	C	3.0	1,65N,42W	25,66N,42W	Atchison			x	x			B			
Tr. to O. Ch.															
Nishnabotna R.	C	1.5	Mouth	17,64N,41W	Atchison			x	x			B			
Tr. to O. Ch.															
Nishnabotna R.	C	2.0	Mouth	30,66N,41W	Atchison			x	x			B			
No. 3 Island Chute	P	7.0	6,25N,18E	29,25N,18E	Mississippi			x	x			B			
No. 13 Elk Chute	C	2.0	Mouth	35,19N,11E	Pemiscot			x	x			B			
No Cr.	P	22.5	Mouth	14,62N,23W	Livingston	Grundy		x	x			B			
Noblett Cr.	P	2.0	Mouth	Noblett Lake Dam	Douglas			x	x			B			
Noblett Cr.	P	4.0	24,26N,11W	9,26N,10W	Douglas	Howell		x	x			B			
Noblett Cr.	C	1.0	9,26N,10W	10,26N,10W	Howell			x	x			B			
Nodaway R.	P	60.0	Mouth	State Line	Andrew	Nodaway	x	x	x			B	x		
Old Chan. Nodaway R.	C	2.5	Mouth	30,65N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	1.0	1,59N,37W	1,59N,37W	Holt	Andrew		x	x			B			
Old Chan. Nodaway R.	C	5.0	Mouth	35,62N,37W	Andrew	Holt		x	x			B			
Old Chan. Nodaway R.	C	2.5	Mouth	17,65N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	4.5	8,65N,37W	5,65N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	2.5	4,65N,37W	34,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	1.5	Mouth	23,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	1.0	Mouth	11,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	2.0	Mouth	1,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	1.0	Mouth	27,66N,37W	Nodaway			x	x			B			
Noix Cr.	P	1.5	Mouth	19,54N,1W	Pike			x	x			B			
Noix Cr.	C	5.0	19,54N,1W	Hwy. 54	Pike			x	x			B			
Norman Cr.	C	7.4	Mouth	08,36N,06W	Phelps			x	x			B			
Norris Cr.	C	4.0	Mouth	33,44N,27W	Henry			x	x			B			
North Cut Ditch	P	24.0	Mouth	3,28N,14E	New Madrid	Scott	x	x	x			B	x		
North Cut Ditch	C	3.0	3,28N,14E	35,29N,14E	Scott		x	x	x			B	x		
Trib. to North Cut Ditch	C	4.0	Mouth	34,27N,14E	Scott		x	x	x			B			
Trib. to North Cut Ditch	C	2.5	Mouth	36,29N,14E	Scott		x	x	x			B			
North Fk.	C	1.5	Mouth	16,36N,2E	Washington			x	x			B			
North R.	P1	4.0	Mouth	8,58N,5W	Marion			x	x			B	x		
North R.	P	40.0	8,58N,5W	Hwy. 15	Marion	Shelby		x	x			B	x		
North R.	C	16.0	Hwy. 15	Hwy. 151	Shelby	Knox		x	x			B			
Northcut Br.	P	1.0	Mouth	27,39N,1W	Washington			x	x			B			
Northcut Br.	C	1.0	27,39N,1W	34,39N,1W	Washington			x	x			B			
Norvey Cr.	C	9.0	Mouth	9,66N,34W	Nodaway			x	x			B			
Nulls Cr.	C	5.5	Mouth	15,50N,2W	Lincoln			x	x			B			
Old #7 Chute	C	2.0	26,23N,16E	36,23N,16E	Mississippi		x	x	x			B			
Old Bland Cr.	C	2.0	Mouth	8,41N,6W	Gasconade			x	x			B			
Old Chan. Little R.	C	11.0	33,20N,11E	3,20N,12E	Pemiscot			x	x			B			
Old Chan. Little R.	P	39.5	26,22N,12E	11,27N,12E	New Madrid	Scott		x	x			B			
Old Chan. Little R.	P	3.5	11,27N,12E	31,28N,12E	Scott			x	x			B			
Old Kings Lake Sl.	P1	13.0	Mouth	Sur 1724,50N,2E	Lincoln			x	x			B			
Old Kings Lake Sl.	P	2.0	Sur 1724,50N,2E	35,51N,2E	Lincoln			x	x			B			
Old Kings Lake Sl.	C	7.0	35,51N,2E	3,51N,2E	Lincoln			x	x			B			
Old Mines Cr.	P	6.0	Mouth	Hwy. 47	Washington			x	x			[x]/A			
Old Mines Cr.	C	1.0	Hwy. 47	Hwy. 21	Washington			x	x			B			
Trib. Old Mines Cr.	C	1.5	Mouth	32,39N,3E	Washington			x	x			B			
Trib. Old Mines Cr.	C	1.0	Mouth	5,38N,3E	Washington			x	x			B			
Old Town Br.	C	7.0	Mouth	14,36N,31W	Vernon			x	x			B			
Trib. to Old Town Br.	C	1.3	Mouth	01,36N,31W	Vernon			x	x			B			
Old R. (Slough Miss.)	P	10.5	Mouth	12,37N,9E	Ste. Genevieve			x	x			B			
Olive Br.	C	0.8	Mouth	17,46N,20W	Pettis			x	x			B			
Omete Cr.	P	3.5	Mouth	15,35N,12E	Perry			x	x			B			
Omete Cr.	C	1.0	15,35N,12E	22,35N,12E	Perry			x	x			B			
Trib. to Omete Cr.	C	1.0	Mouth	16,35N,12E	Perry			x	x			B			
One Hundred and Two R.	P	74.5	Mouth	State Line	Buchanan	Nodaway	x	x	x			B	x	x	

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Open Hollow	C	1.0	Mouth	16,28N,4W	Shannon			x	x			B			
Opossum Cr.	C	2.0	Mouth	36,30N,11W	Texas			x	x			B			
Opossum Cr.	C	1.5	Mouth	31,40N,3W	Crawford			x	x			B			
Opossum Cr.	P	1.5	Mouth	12,30N,9E	Bollinger			x	x			B			
Opossum Cr.	C	2.0	12,30N,9E	11,30N,9E	Bollinger			x	x			B			
Opossum Cr.	C	6.0	Mouth	28,30N,30W	Jasper			x	x			B			
Osage Fk.	P	69.0	Mouth	26,30N,17W	Laclede	Webster		x	x	x		/x/A	x		
Trib. to Osage Fk.	P	2.5	Mouth	29,30N,17W	Webster			x	x			B			
Osage R.	P	82.0	Mouth	Bagnell Dam	Osage	Miller	x	x	x			/x/A	x		
Trib. to Osage R.	C	1.0	Mouth	9,43N,10W	Cole			x	x			B			
Trib. to Osage R.	C	0.5	Mouth	9,42N,12W	Cole			x	x			B			
Otter Cr.	C	33.0	Mouth	8,56N,12W	Monroe	Shelby		x	x			B			
Otter Cr.	C	2.0	Mouth	11,56N,27W	Caldwell			x	x			B			
Otter Cr.	C	3.0	Mouth	31,46N,18W	Cooper			x	x			B			
Otter Cr.	C	2.0	Mouth	22,24N,16W	Ozark			x	x			B			
Otter Cr.	P	5.0	Mouth	18,27N,6E	Wayne			x	x			B			
Otter Cr.	C	15.5	18,27N,6E	18,28N,4E	Wayne			x	x			B			
Otter Slough	P	7.0	Mouth	3,24N,13E	New Madrid			x	x			B			
Otter Slough Ditch	P	4.0	12,23N,8E	19,24N,9E	Stoddard			x	x			B			
Ottery Cr.	P	6.0	Mouth	14,34N,1E	Reynolds	Iron		x	x			B			
Ottery Cr.	C	2.0	14,34N,1E	12,34N,1E	Iron			x	x			B			
Owens Cr.	C	3.0	Mouth	21,43N,32W	Cass			x	x			B			
Owens Cr.	C	3.0	Mouth	12,42N,8W	Osage			x	x			B			
Owl Cr.	C	2.0	Mouth	3,47N,11W	Callaway			x	x			B			
Owl Cr.	C	2.0	Mouth	11,36N,4E	St. Francois			x	x			B			
Owl Cr.	C	3.3	Mouth	27,49N,28W	Lafayette			x	x			B			
Owl Cr.	C	4.6	Mouth	24,54N,35W	Platte			x	x			B			
P.D. Cr.	C	0.1	Mouth	28,40N,21W	Benton			x	x			B			
Painter Cr.	C	3.2	Mouth	33,48N,20W	Pettis			x	x			B			
Palmer Cr.	P	10.5	Mouth	9,53N,19W	Chariton			x	x			B			
Palmer Cr.	C	2.0	9,53N,19W	33,54N,19W	Chariton			x	x			B			
Panther Cr.	C	5.0	Mouth	33,64N,30W	Gentry			x	x			B			
Panther Cr.	C	3.5	Mouth	28,57N,26W	Caldwell			x	x			B			
Trib. to Panther Cr.	C	2.0	Mouth	23,57N,26W	Caldwell			x	x			B			
Panther Cr.	P	2.0	Mouth	14,64N,26W	Harrison			x	x			B			
Panther Cr.	C	7.0	14,64N,26W	36,65N,27W	Harrison			x	x			B			
Panther Cr.	C	7.0	Mouth	15,44N,29W	Johnson			x	x			B			
Panther Cr.	C	11.0	Mouth	14,39N,29W	Bates			x	x			B			
Panther Cr.	C	2.0	Mouth	32,36N,24W	St. Clair			x	x			B			
Panther Cr.	P	2.0	Mouth	13,32N,17W	Laclede			x	x			B			
Panther Cr.	C	0.5	13,32N,17W	14,32N,17W	Laclede			x	x			B			
Panther Cr.	P	2.5	Mouth	36,32N,10E	Cape Girardeau	Bollinger		x	x			B			
Panther Cr.	C	1.0	36,32N,10E	2,31N,10E	Bollinger			x	x			B			
Panther Cr.	P	8.5	Mouth	29,29N,18W	Webster			x	x			B			
Panther Cr.	C	3.2	Mouth	18,28N,11W	Texas			x	x			B			
Panther Cr.	C	7.8	Mouth	13,35N,24W	Polk	Hickory		x	x			B			
Panther Hollow	C	1.1	Mouth	10,27N,07W	Howell			x	x			B			
Paris Br.	C	3.0	Mouth	31,50N,1W	Lincoln			x	x			B			
Parker Br.	P	2.0	Mouth	2,39N,32W	Bates			x	x			B			
Parker Br.	C	2.0	26,33N,3W	15,33N,3W	Reynolds			x	x			B			
Parker Hollow	P	2.0	Mouth	20,32N,6W	Dent			x	x		x	B			
Parks Cr.	P	3.0	Mouth	30,32N,15W	Laclede	Wright		x	x			B			
Parks Cr.	C	2.0	30,32N,15W	8,30N,15W	Wright			x	x			B			
Parson Cr.	P	15.0	Mouth	23,58N,22W	Livingston	Linn		x	x			B	x		
Parson Cr.	C	14.0	23,58N,22W	31,60N,21W	Linn			x	x			B			
Pass Br.	C	3.0	Mouth	3,50N,23W	Saline			x	x			B			
Patterson Cr.	C	1.5	Mouth	35,33N,4E	Iron			x	x			B			
Patterson Cr.	P	2.0	State Line	Hwy. 43	McDonald		x	x	x			B			
Patton Br.	C	5.0	Mouth	26,33N,29W	Barton			x	x			B			
Pea Ridge Cr.	P	1.5	Mouth	2,29N,22W	Greene			x	x			B		x	
Peachtree Fk.	P	2.0	Mouth	8,29N,4E	Wayne			x	x			B			

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												WBC	SCR	DWS	IND
Peachtree Fk.	C	3.0	8,29N,4E	36,30N,3E	Wayne			x	x			B			
Pearson Cr.	P	8.0	Mouth	5,29N,20W	Greene			x	x			/x/A			
Peavine Cr.	C	4.0	Mouth	29,48N,24W	Johnson			x	x			B			
Peavine Cr.	C	1.5	Mouth	11,40N,7W	Maries			x	x			B			
Pecaut Hollow	C	1.5	Mouth	19,35N,10E	Perry			x	x			B			
Peckout Hollow	C	2.0	Mouth	9,25N,20W	Christian			x	x			B			
Peddler Cr.	P	1.5	Mouth	28,64N,31W	Gentry			x	x			B			
Peddler Cr.	C	2.5	28,64N,31W	16,64N,31W	Gentry			x	x			B			
Pedelo Cr.	P	0.5	Mouth	7,27N,19W	Christian			x	x			B			
Pedelo Cr.	C	1.0	7,27N,19W	6,27N,19W	Christian			x	x			B			
Pedlar Cr.	C	5.0	Mouth	23,61N,36W	Andrew			x	x			B			
Peers Slough	C	2.5	Mouth	27,45N,2W	Warren			x	x			B			
Peno Cr.	C	11.0	Mouth	32,54N,3W	Pike			x	x	x		B			
Trib. to Peno Cr.	C	1.0	19,55N,3W	30,55N,3W	Pike			x	x			B			
Pepper Cr.	C	2.4	Mouth	33,44N,23W	Pettis			x	x			B			
Perche Cr.	P1	11.0	Mouth	29,48N,13W	Boone			x	x			B		x	
Perche Cr.	P	17.0	29,48N,13W	5,49N,13W	Boone			x	x			B		x	
Perche Cr.	C	21.0	5,49N,13W	19,52N,13W	Boone	Randolph		x	x			B			
Trib. to Perche Cr.	C	1.5	Mouth	8,47N,13W	Boone			x	x			B			
Perkins Br.	P	1.5	Mouth	13,27N,6E	Wayne			x	x			B			
Perkins Cr.	P	7.0	Mouth	36,30N,8E	Bollinger			x	x			B			
Perkins Cr.	C	3.0	36,30N,8E	24,30N,8E	Bollinger			x	x			B			
Trib. to Perkins Cr.	C	2.0	Mouth	25,30N,8E	Bollinger			x	x			B			
Peruque Cr.	P1	6.0	Mouth	Hwy. 79	St. Charles			x	x			B		x	
Peruque Cr.	P	8.0	Hwy. 79	Lake St. Louis Dam	St. Charles			x	x			B		x	
Peruque Cr.	P	4.0	Hwy. 40/61	25,47N,1E	St. Charles			x	x			B			
Peruque Cr.	C	8.5	25,47N,1E	23,47N,1W	St. Charles			x	x			B			
Peters Br.	C	1.5	Mouth	13,29N,5E	Wayne			x	x			B			
Peters Cr.	C	3.5	Mouth	22,29N,8W	Texas			x	x			B			
Peters Cr.	C	1.0	Mouth	36,32N,6E	Madison			x	x			B			
Petite Saline Cr.	P	17.0	Mouth	24,48N,17W	Moniteau	Cooper		x	x			/x/A		x	
Petite Saline Cr.	C	24.0	24,48N,17W	26,46N,18W	Cooper			x	x			B			
Pettis Cr.	C	6.5	Mouth	9,31N,30W	Barton			x	x			B			
Pickeral Cr.	P	3.0	Mouth	26,29N,24W	Greene			x	x			B			
Pickeral Cr.	C	0.5	26,29N,24W	26,29N,24W	Greene			x	x			B			
Pickle Cr.	P	7.0	Mouth	19,36N,7E	Ste. Genevieve			x	x			B			
Trib. to Pierce Cr.	C	0.6	Mouth	31,41N,02E	Franklin			x	x			B			
Trib. to Pierce Cr.	C	1.0	Mouth	06,40N,02E	Franklin			x	x			B			
Pierre Fleche Cr.	C	5.0	Mouth	15,50N,19W	Saline			x	x			B			
Pigeon Cr.	C	6.5	Mouth	15,56N,35W	Buchanan			x	x			B			
Pigeon Cr.	C	1.0	State Line	11,21N,13W	Ozark			x	x			B			
Pigeon Cr.	P	6.0	Montauk Spring	8,32N,7W	Dent			x	x			/x/A			
Pigeon Cr.	C	6.0	8,32N,7W	34,33N,8W	Dent	Texas		x	x			B			
Pigeon Roost Cr.	C	0.5	Mouth	18,54N,7W	Monroe			x	x			B			
Pike Cr.	P	3.0	Mouth	34,27N,1W	Carter			x	x	x		B			
Pike Cr.	C	22.0	34,27N,1W	27,27N,3W	Carter	Shannon		x	x			B			
Pike Cr. Ditch	C	3.0	Mouth	18,22N,6E	Butler		x	x	x			B			
Pike Cr.	C	5.0	18,22N,6E	33,23N,6E	Butler		x	x	x			B			
Pike Cr.	C	6.0	15,24N,6E	30,25N,6E	Butler		x	x	x			B			
Pike Slough	C	5.0	Mouth	28,24N,6E	Butler			x	x			B			
Pilot Br.	C	1.0	Mouth	10,44N,16W	Moniteau			x	x			B			
Pilot Grove Cr.	C	5.0	Mouth	11,60N,27W	Daviess			x	x			B			
Pilot Knob Cr.	C	2.0	Mouth	30,34N,4E	Iron			x	x			B			
Pin Oak Cr.	C	3.0	Mouth	25,46N,28W	Johnson			x	x			B			
Pin Oak Cr.	P	1.0	Mouth	7,43N,6W	Gasconade			x	x			B			
Pin Oak Cr.	C	1.5	7,43N,6W	Hwy. 50	Gasconade			x	x			B			
Pin Oak Cr.	C	2.0	Mouth	3,44N,3W	Franklin			x	x			B			
Pin Oak Cr.	C	3.0	Mouth	03,42N,04W	Franklin			x	x			B			
Pin Oak Cr.	C	1.6	Mouth	11,39N,07W	Maries			x	x			B			
Pine Br.	C	4.2	Mouth	01,28N,08W	Texas			x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Pine Cr.	P	1.5	Mouth	30,23N,12W	Ozark			x	x			B			
Pine Cr.	C	9.0	30,23N,12W	2,23N,13W	Ozark			x	x			B			
Pine Cr.	P	8.0	Mouth	5,27N,9W	Texas	Howell		x	x			B			
Pine Cr.	C	1.0	5,27N,9W	5,27N,9W	Howell			x	x			B			
Pine Hollow	C	4.0	Mouth	25,28N,5W	Shannon			x	x			B			
Pine Run	C	4.0	Mouth	26,25N,24W	Stone			x	x			B			
Pine Valley Cr.	C	6.5	Mouth	13,28N,1W	Carter	Reynolds		x	x			B			
Pinery Cr.	C	1.0	Mouth	36,40N,1E	Washington			x	x			B			
Pinery Cr.	C	0.5	Mouth	21,39N,1E	Washington			x	x			B			
Piney Br.	C	1.0	Mouth	25,36N,1W	Washington			x	x			B			
Piney Cr.	C	3.0	Mouth	22,23N,25W	Stone	Barry		x	x			B			
Piney Cr.	C	10.5	Mouth	Hwy. 160	Oregon			x	x			B			
Piney Cr.	C	1.5	Mouth	7,33N,6E	Madison			x	x			B			
Piper Cr.	P	7.5	Mouth	Hwy. 83	Polk			x	x			B			
Pipes Br.	C	2.0	Mouth	16,49N,15W	Howard			x	x			B			
Pippin Br.	P	0.8	Mouth	26,37N,20W	Hickory			x	x			B			
Pippin Br.	P	3.0	26,37N,20W	28,37N,20W	Hickory			x	x			B			
Trib. to Pippin Br.	C	1.5	Mouth	29,37N,20W	Hickory			x	x			B			
Trib. to Pippin Br.	C	0.5	Mouth	26,37N,20W	Hickory			x	x			B			
Platte R.	P	138.0	Mouth	State Line	Platte	Worth	x	x	x			B	x		x
Old Chan. Platte R.	C	3.0	Mouth	16,56N,34W	Buchanan			x	x			B			
Old Chan. Platte R.	C	1.0	Mouth	35,57N,34W	Buchanan			x	x			B			
Old Chan. Platte R.	C	4.0	21,57N,34W	4,57N,34W	Buchanan			x	x			B			
Old Chan. Platte R.	C	1.0	34,57N,34W	27,57N,34W	Buchanan			x	x			B			
Old Chan. Platte R.	C	5.0	4,57N,34W	28,58N,34W	Buchanan			x	x			B			
Plattin Cr.	P	24.0	Mouth	01,38N,05E	Jefferson	St. Francois		x	x			/x/A	x		x
Plattin Cr.	C	3.0	17,38N,05E	17,38N,06E	St. Francois		x	x				B			
Trib. to Plattin Cr.	P	1.0	Mouth	13,39N,5E	Jefferson			x	x			B			
Pleasant Run Cr.	C	6.7	Mouth	28,34N,31W	Vernon			x	x			B			
Pleasant Valley Cr.	P	3.0	Mouth	14,39N,5W	Crawford			x	x			B			
Pleasant Valley Cr.	C	1.0	14,39N,5W	24,39N,5W	Crawford			x	x			B			
Plum Cr.	C	1.5	Mouth	2,33N,6E	Madison			x	x			B			
Pogue Cr.	C	2.5	Mouth	32,24N,28W	Barry			x	x			B			
Pointers Cr.	C	1.0	Mouth	31,43N,7W	Osage	Benton		x	x			B			
Pole Hollow	P	3.0	Mouth	25,42N,20W	Morgan			x	x			B			
Polecat Cr.	C	8.0	Mouth	Hwy. 136	Harrison			x	x			B			
Polecat Cr.	C	4.0	Mouth	13,34N,26W	Cedar			x	x			B			
Pomme Cr.	P	2.0	Mouth	32,43N,06E	Jefferson			x	x			B			
Pomme de Terre R.	P	21.0	Mouth	Pomme de Terre Dam	Hickory			x	x	x		/x/A	x		
Pomme de Terre R.	P	62.0	24,35N,23W	7,30N,18W	Polk	Webster		x	x			/x/A	x		
Trib to Pomme de Terre Res.	C	1.2	Mouth	30,36N,22W	Hickory			x	x			B			
Pond Cr.	P	4.0	Mouth	5,28N,23W	Greene			x	x			B			
Pond Cr.	C	1.0	35,38N,3E	11,37N,3E	Washington			x	x			B			
Pond Cr.	P	1.0	Mouth	35,38N,3E	Washington			x	x			B			
Trib. to Pond Cr.	C	1.0	Mouth	3,37N,3E	Washington			x	x			B			
Pond Cr.	P	4.0	Mouth	11,29N,8E	Bollinger			x	x			B			
Pond Cr.	C	2.0	11,29N,8E	3,29N,8E	Bollinger			x	x			B			
Trib. to Pond Cr.	C	1.0	Mouth	15,29N,8E	Bollinger			x	x			B			
Pond Cr.	C	3.0	Mouth	30,30N,33W	Jasper			x	x			B			
Pond Fk.	P	2.0	Mouth	23,23N,16W	Ozark			x	x			B			
Pond Fk.	C	7.0	23,23N,16W	Taney Co. Line	Ozark			x	x			B			
Pond Spring Br.	P	1.9	Mouth	15,30N,08W	Texas			x	x			B			
Poney Cr.	P	3.2	Mouth	13,44N,33W	Cass			x	x			B			
Poney Cr.	C	9.1	13,44N,33W	State Line	Cass			x	x			B			
Poor Cr.	C	2.5	Mouth	13,48N,3W	Montgomery			x	x			B			
Possum Hollow	C	1.0	Mouth	12,38N,17W	Camden			x	x			B			
Possum Hollow	P	2.0	28,27N,7E	22,27N,7E	Wayne			x	x			B			
Possum Hollow	C	1.0	22,27N,7E	16,27N,7E	Wayne			x	x			B			
Trib. to Possum Hollow	P	0.5	Mouth	22,27N,7E	Wayne			x	x			B			

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DWS-Drinking Water Supply
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Trib. to Possum Hollow	C	0.5	22,27N,7E	15,27N,7E	Wayne			x	x			B			
Possum Trot Hollow	P	2.0	Mouth	16,35N,2W	Crawford			x	x			B			
Possum Trot Hollow	C	1.0	16,35N,2W	21,35N,2W	Crawford			x	x			B			
Trib. to Possum Trot Hol.	C	1.0	Mouth	9,35N,2W	Crawford			x	x			B			
Possum Walk Cr.	C	4.0	Mouth	18,21N,13W	Ozark			x	x			B			
Postoak Cr.	P	4.0	Mouth	22,46N,26W	Johnson			x	x			B			
Potters Cr.	P	4.0	Mouth	16,28N,10W	Texas			x	x			B			
Potters Cr.	C	2.0	16,28N,10W	22,28N,10W	Texas			x	x			B			
Powers Island Chute	P	9.0	Mouth	30,29N,15E	Scott			x	x			B	x		
Prairie Br.	P	2.5	Mouth	8,47N,6W	Montgomery			x	x			B			
Prairie Br.	C	5.0	8,47N,6W	10,47N,7W	Montgomery	Callaway		x	x			B			
Prairie Cr.	C	4.0	Mouth	12,52N,35W	Platte			x	x			B			
Trib. to Prairie Cr.	C	1.0	Mouth	24,52N,35W	Platte			x	x			B			
Prairie Cr.	C	1.0	Mouth	1,39N,5W	Crawford			x	x			B			
Prairie Cr.	C	3.0	Mouth	3,27N,15W	Douglas			x	x			B			
Prairie Cr.	C	4.1	Mouth	04,32N,12W	Texas	Laclede		x	x			B			
Prairie Cr.	C	2.0	Mouth	36,39N,11W	Maries			x	x			B			
Prairie Cr.	C	2.9	Mouth	35,39N,22W	Benton			x	x			B			
Prairie Fk.	C	3.0	Mouth	20,46N,9W	Callaway			x	x			B			
Prairie Hollow	P	7.0	Mouth	04,37N,18W	Camden			x	x			B			
Prairie Run Hollow	C	1.0	Mouth	25,25N,27W	Barry			x	x			B			
Price Br.	C	3.0	6,33N,25W	34,34N,25W	Cedar			x	x			B			
Price Cr.	C	1.5	Mouth	27,40N,6W	Gasconade			x	x			B			
Prime Cr.	C	1.5	Mouth	31,46N,9W	Callaway			x	x			B			
Primrose Cr.	C	2.0	Mouth	22,38N,4E	St. Francois			x	x			B			
Profits Cr.	C	2.0	Mouth	24,42N,12W	Cole			x	x			B			
Province Br.	P	1.5	Mouth	3,29N,25W	Lawrence			x	x			B			
Trib. to Province Br.	C	1.0	Mouth	3,29N,25W	Lawrence			x	x			B			
Pruett Cr.	C	1.5	Mouth	16,38N,5W	Crawford			x	x			B			
Pruett Cr.	P	1.0	16,38N,5W	9,38N,5W	Crawford			x	x			B			
Trib. to Pruett Cr.	C	1.0	Mouth	21,38N,5W	Crawford			x	x			B			
Pryor Cr.	C	2.5	Mouth	08,37N,32W	Vernon			x	x			B			
Pucket Br.	C	1.0	Mouth	12,38N,1E	Washington			x	x			B			
Pump Hollow	C	2.0	Mouth	16,40N,2W	Crawford			x	x			B			
Punch Cr.	C	1.0	Mouth	6,31N,9E	Bollinger			x	x			B			
Puncheon Cr.	C	2.5	Mouth	36,44N,5W	Gasconade			x	x			B			
Trib. to Puncheon Cr.	C	1.5	Mouth	30,44N,5W	Gasconade			x	x			B			
Purcett Br.	C	2.3	Mouth	05,35N,25W	St. Clair	Cedar		x	x			B			
Puzzle Cr.	C	13.0	Mouth	25,57N,17W	Chariton	Macon		x	x			B			
Pyatt Hollow	C	2.0	Mouth	13,36N,3W	Crawford			x	x			B			
Trib. to Pyatt Hollow	C	1.0	Mouth	24,36N,3W	Crawford			x	x			B			
Quick Cr.	P1	1.5	Mouth	28,46N,5W	Montgomery			x	x			B			
Quick Cr.	C	4.5	28,46N,5W	25,46N,6W	Montgomery			x	x			B			
Rabbit Hollow	C	1.0	Mouth	14,38N,1E	Washington			x	x			B			
Raccoon Cr.	C	4.0	Mouth	5,61N,25W	Grundy			x	x			B			
Trib. to Raccoon Cr.	C	1.5	Mouth	9,61N,25W	Grundy			x	x			B			
Raccoon Hollow	C	1.0	Mouth	16,24N,11W	Ozark			x	x			B			
Race Cr.	P	0.5	Mouth	21,37N,1E	Washington			x	x			B			
Ragan Br.	C	3.8	Mouth	20,36N,07W	Phelps			x	x			B			
Railey Cr.	C	6.5	Mouth	Hwy. 13	Stone			x	x			B			
Rainy Cr.	P	2.5	5,39N,19W	7,39N,19W	Camden			x	x			[x]/A	x		
Rainy Cr.	C	1.5	7,39N,19W	13,39N,20W	Benton			x	x			B			
Ramsey Br.	P	6.5	Mouth	33,31N,13E	Cape Girardeau			x	x			B	x		
Ramsey Br.	C	1.0	33,31N,13E	28,31N,13E	Cape Girardeau			x	x			B			
Ramsey Cr.	P	6.0	Mouth	[14,29N,13E] 20,29N,14E	Scott			x	x			B			
Ramsey Cr. Div. Chan.	P	3.0	Mouth	1,29N,13E	Scott			x	x			B			
Ramsey Cr.	C	7.0	Mouth	Sur 1709(9), 52N,1E	Pike			x	x			B			
Rattlesnake Cr.	C	3.0	Mouth	3,56N,25W	Livingston			x	x			B			
Red Oak Cr.	P	5.0	Mouth	28,42N,4W	Franklin	Gasconade		x	x			B			
Red Oak Cr.	C	9.0	28,42N,4W	16,41N,5W	Gasconade			x	x			B			

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

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												WBC	SCR	DWS	IND
Trib. to Red Oak Cr.	P	0.5	Mouth	35,42N,05W	Gasconade			x	x			B			
Trib. to Red Oak Cr.	C	1.5	127/35, 42N,05W	135/27,42N,05W	Gasconade			x	x			B			
Reed Cr.	C	2.1	Mouth	11,37N,32W	Vernon			x	x			B			
Reese Fk.	C	7.0	Mouth	28,53N,12W	Monroe			x	x			B			
Reid Cr.	C	2.0	Mouth	Sur 1717,51N,2W	Lincoln			x	x			B			
Reid Cr.	C	1.5	Mouth	5,38N,27W	St. Clair			x	x			B			
Reid Cr.	C	22.0	Mouth	30,35N,3E	Washington	Iron		x	x			B			
Reisobel Br.	C	1.0	Mouth	22,40N,6W	Gasconade			x	x			B			
Richland Cr.	C	4.0	Mouth	29,48N,9W	Callaway			x	x			B			
Richland Cr.	P	3.5	Mouth	Hwy. 87	Howard			x	x			B			
Richland Cr.	C	2.0	Hwy. 87	16,50N,17W	Howard			x	x			B			
Richland Cr.	P	8.0	13,45N,19W	17,44N,18W	Morgan			x	x			/x/A	x		
Richland Cr.	C	10.0	17,44N,18W	22,43N,18W	Morgan			x	x			/x/A	x		
Richland Cr.	C	0.5	Mouth	6,44N,6W	Gasconade			x	x			B			
Ricky Cr.	C	6.0	Mouth	15,39N,28W	St. Clair			x	x			B			
Riggin Br.	C	1.5	Mouth	21,60N,35W	Andrew			x	x			B			
Rings Cr.	P	5.0	Mouth	23,29N,4E	Wayne			x	x			/x/A			
Rings Cr.	C	0.5	23,29N,4E	27,29N,4E	Wayne			x	x			B			
Trib. to Rings Cr.	C	0.5	Mouth	26,29N,4E	Wayne			x	x			B			
Trib. to Rings Cr.	C	1.0	Mouth	23,29N,4E	Wayne			x	x			B			
Rippee Cr.	P	4.5	Mouth	13,25N,15W	Douglas			x	x			B			
Rippee Cr.	C	2.0	13,25N,15W	14,25N,15W	Douglas			x	x			B			
Rising Cr.	P	1.0	Mouth	M.P.R.R. tracks	Cole			x	x			B			
Rising Cr.	C	4.0	M.P.R.R. tracks	36,44N,11W	Cole			x	x			B			
Rivaux Cr.	P1	1.5	Mouth	21,44N,10W	Callaway			x	x			B			
Rivaux Cr.	C	3.5	21,44N,10W	8,44N,10W	Callaway			x	x			B			
River aux Vases	P	17.0	Mouth	18,36N,8E	Ste. Genevieve			x	x			/x/A			
River aux Vases	C	4.0	18,36N,8E	27,36N,7E	Ste. Genevieve			x	x			B			
River des Peres	P	1.5	Mouth	Gravois Cr.	St. Louis City			x	x			B			
River des Peres	C	1.0	Gravois Cr.	Morgan Ford Road	St. Louis City			x	x			B			
Roach Lake	C	2.5	29,57N,23W	25,57N,24W	Livingston			x	x			B			
Roaring R.	P	7.0	Mouth	34,22N,27W	Barry			x	x		x	/x/A	x		
Roaring Springs	P	0.1	Mouth	35,33N,10W	Texas			x	x			B			
Roark Br.	C	1.0	Mouth	23,43N,14W	Cole			x	x			B			
Roark Cr.	C	3.0	Mouth	36,23N,22W	Taney			x	x		x	/x/A	x		
Roark Cr.	C	4.0	36,23N,22W	15,23N,22W	Taney			x	x			/x/A	x		
Roberts Br.	C	1.0	Mouth	5,54N,32W	Clinton			x	x			B			
Robinson Br.	C	1.6	Mouth	30,36N,29W	Vernon			x	x			B			
Robinson Creek	P	3.1	Mouth	Hwy B	Phelps			x	x			B			
Rock Br.	C	3.0	Mouth	24,36N,3W	Crawford			x	x			B			
Rock Br.	P	2.0	State Line	12,26N,34W	Newton			x	x			B			
Rock Br.	C	1.6	Mouth	10,32N,10W	Texas			x	x			B			
Rock Cr.	C	4.0	Mouth	34,62N,12W	Knox			x	x			B			
Rock Cr.	P	2.0	Mouth	30,64N,41W	Atchison			x	x			B			
Rock Cr.	C	18.0	30,64N,41W	17,66N,40W	Atchison			x	x			B			
Rock Cr.	P	1.0	Mouth	9,45N,13W	Cole			x	x			B			
Rock Cr.	C	3.0	9,45N,13W	18,45N,13W	Cole			x	x			B			
Rock Cr.	C	1.0	Mouth	19,43N,11W	Cole			x	x			B			
Rock Cr.	C	3.0	Mouth	24,33N,12W	Texas			x	x			B			
Rock Cr.	P	5.0	Mouth	2,42N,5E	Jefferson			x	x			B			
Rock Cr.	C	3.0	2,42N,5E	Hwy. 21	Jefferson			x	x			B			
Rock Cr.	P	3.0	36,22N,26W	24,22N,26W	Barry			x	x			B			
Rock Cr.	C	5.0	24,22N,26W	8,22N,26W	Barry			x	x			B			
Rock Cr.	P	0.5	Mouth	19,34N,7E	Madison			x	x			B			
Rock Cr.	C	2.0	19,34N,7E	9,34N,7E	Madison	St. Francois		x	x			B			
Rock Cr.	P	2.5	Mouth	16,33N,5E	Madison			x	x			B			
Rock Cr.	C	0.5	16,33N,5E	17,33N,5E	Madison			x	x			B			
Rock Cr.	C	2.5	Mouth	33,33N,5E	Madison			x	x			B			
Rock Cr.	C	3.6	Mouth	Hwy 92	Clay			x	x			B			
Rock Enon Cr.	C	4.0	Mouth	14,43N,15W	Moniteau			x	x			B			
Rockhouse Cr.	P	2.0	Mouth	14,23N,26W	Barry			x	x			B			

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Rockhouse Cr.	C	4.0	14,23N,26W	28,23N,26W	Barry			x	x			B			
Trib. to Rockhouse Cr.	C	2.5	Mouth	34,23N,26W	Barry			x	x			B			
Rocky Br.	C	2.0	Mouth	16,43N,16W	Moniteau			x	x			B			
Rocky Br.	C	0.4	Mouth	23,39N,02E	Washington			x	x			B			
Rocky Br.	C	3.2	Mouth	11,52N,33W	Clay			x	x			B			
Rocky Cr.	P	2.0	Mouth	6,28N,2W	Shannon			x	x			B			
Rocky Cr.	C	3.0	Mouth	7,28N,8E	Wayne	Bollinger		x	x			B			
Rocky Fk.	C	4.0	Mouth	19,53N,28W	Ray			x	x			B			
Rocky Fk.	C	8.0	Mouth	36,50N,13W	Boone			x	x			B			
Rocky Fk.	C	0.1	Mouth	04,35N,01W	Washington			x	x			B			
Rocky Fk. Cr.	P	3.0	Mouth	21,42N,18W	Morgan			x	x			B			
Rocky Hollow	C	1.0	Mouth	08,35N,29W	Vernon			x	x			B			
Rogers Cr.	C	1.0	Mouth	7,39N,10W	Maries			x	x			B			
Rogers Cr.	C	9.4	Mouth	28,28N,02W	Carter			x	x			/x/A			
Rollins Cr.	C	7.0	Mouth	13,51N,29W	Ray			x	x			B			
Rollins Cr.	C	1.0	Mouth	16,38N,14W	Miller			x	x			B			
Ross Cr.	P	3.0	Mouth	13,41N,21W	Benton			x	x			B			
Roubidoux Cr.	P	4.0	Mouth	25,36N,12W	Pulaski			x	x		x	/x/A	x		
Roubidoux Cr.	C	20.0	25,36N,12W	11,34N,12W	Pulaski			x	x	x		/x/A	x		
Roubidoux Cr.	P	18.0	11,34N,12W	4,31N,11W	Pulaski	Texas		x	x	x		/x/A	x		
Rubeneau Br.	C	2.0	Mouth	Sur 2115,37N,3E	Washington			x	x			B			
Rush Cr.	P	4.0	Mouth	Hwy. 45	Platte			x	x			B			
Rush Cr.	P	8.2	Mouth	Hwy H	Clay			x	x			/x/A			
Rutledge Run	C	2.0	Mouth	15,35N,2E	Washington			x	x			B			
Rye Cr.	P	2.0	Mouth	23,41N,1E	Franklin			x	x			B			
Rye Cr.	C	1.5	23,41N,1E	26,41N,1E	Franklin			x	x			B			
S. Ashley Cr.	P	5.0	Mouth	9,31N,7W	Dent	Texas		x	x			B			
S. Ashley Cr.	C	2.0	9,31N,7W	18,31N,7W	Texas			x	x			B			
S. Big Cr.	C	5.0	Mouth	Lake Viking Dam	Daviess			x	x			B			
S. Blackbird Cr.	C	13.0	2,64N,17W	18,65N,18W	Putnam			x	x			B			
S. Bridges Cr.	C	4.0	17,22N,11W	13,22N,11W	Ozark			x	x			B			
S. Brush Cr.	C	2.0	Mouth	12,53N,9W	Monroe			x	x			B			
S. Davis Cr.	C	6.4	Mouth	22,48N,27W	Lafayette			x	x			B			
S. Deepwater Cr.	C	1.0	Mouth	20,40N,29W	Bates			x	x			B			
S. Dry Sac R.	P	1.5	Mouth	36,30N,22W	Greene			x	x			B			
S. Dry Sac R.	C	2.0	5,29N,20W	3,29N,20W	Greene			x	x			B			
S. Fabius R.	P	61.5	24,59N,6W	29,62N,11W	Marion	Knox	x	x	x			B			
S. Fk. Apple Cr.	P	5.0	Mouth	34,34N,10E	Cape Girardeau	Perry		x	x			B			
S. Fk. Apple Cr.	C	1.0	34,34N,10E	33,34N,10E	Perry			x	x			B			
Trib. to S. Fk. Apple Cr.	C	1.0	Mouth	5,33N,11E	Cape Girardeau			x	x			B			
Trib. to S. Fk. Apple Cr.	C	0.5	Mouth	34,34N,10E	Perry			x	x			B			
S. Fk. Blackwater R.	P	5.0	12,46N,27W	19,46N,27W	Johnson			x	x			B			
S. Fk. Blackwater R.	C	14.0	19,46N,27W	30,47N,28W	Johnson			x	x			B			
Trib. to S. Fk. Blackwater R.	C	3.5	Mouth	18,46N,28W	Johnson			x	x			B			
Trib. to S. Fk. Blackwater R.	C	1.0	Mouth	04,46N,23W	Pettis			x	x			B			
S. Fk. Brush Cr.	C	4.9	Mouth	03,34N,24W	Polk			x	x			B			
Trib. to S. Fk. Brush Cr.	C	1.7	Mouth	33,35N,24W	Polk			x	x			B			
S. Fk. Buffalo Cr.	P	2.0	20,24N,1E	30,24N,1E	Ripley			x	x	x		B			
S. Fk. Buffalo Cr.	C	4.0	30,24N,1E	34,24N,1W	Ripley			x	x	x		B			
S. Fk. Capps Cr.	C	4.0	17,25N,28W	27,25N,28W	Barry			x	x			B			
S. Fk. Clear Cr.	C	6.0	Mouth	21,65N,36W	Nodaway			x	x			B			
S. Fk. Gees Cr.	C	2.5	Mouth	2,59N,25W	Livingston			x	x			B			
S. Fk. Jonca Cr.	C	1.5	8,36N,7E	18,36N,7E	Ste. Genevieve			x	x			B			
S. Fk. Isle Du Bois Cr.	C	3.5	Mouth	36,39N,6E	Ste. Genevieve			x	x			B			
S. Fk. L. Meramec R.	P	3.5	7,41N,2E	19,41N,2E	Franklin			x	x			B			
S. Fk. L. Meramec R.	C	2.0	19,41N,2E	31,41N,2E	Franklin			x	x			B			
S. Fk. M. Fabius R.	P	11.0	22,64N,12W	31,65N,13W	Scotland	Schuyler		x	x			B			
S. Fk. M. Fabius R.	C	13.0	31,65N,13W	Hwy. 63	Schuyler			x	x			B			
S. Fk. S. Fabius R.	P	5.5	29,62N,11W	9,62N,12W	Knox			x	x			B			
S. Fk. S. Fabius R.	C	12.5	9,62N,12W	13,63N,14W	Knox	Adair		x	x			B			

[BTG]

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S. Fk. N. Fabius R.	C	11.0	Mouth	34,67N,15W	Schuyler			x	x			B			
Trib. to S. Fk. N. Fabius R.	C	3.0	Mouth	30,67N,14W	Schuyler			x	x			B			
S. Fk. North R.	P	6.5	Mouth	13,57N,8W	Marion			x	x			B			
S. Fk. North R.	C	3.5	13,57N,8W	21,57N,8W	Marion			x	x			B			
S. Fk. Pomme de Terre	P	4.0	Mouth	25,30N,20W	Greene			x	x			/x/A	x		
S. Fk. S. Grand R.	C	10.0	Mouth	34,44N,33W	Cass			x	x			B			
S. Fk. Saline Cr.	P	20.5	Mouth	28,35N,9E	Perry			x	x	x		B			
S. Fk. Saline Cr.	C	5.0	28,35N,9E	1,34N,8E	Perry	Ste. Genevieve		x	x			B			
Trib. to S. Fk. Saline Cr.	P	2.0	Mouth	3,34N,9E	Perry			x	x			B			
S. Fk. Salt R.	P	18.0	8,53N,8W	Audrain Co. Line	Monroe		x	x	x			B	x		
S. Fk. Salt R.	C	32.0	Audrain Co. Line	5,49N,4W	Audrain	Callaway		x	x			B	x		
Trib. to S. Fk. Salt R.	C	0.5	Mouth	35,52N,9W	Audrain			x	x			B			
S. Fk. Spring Cr.	C	1.0	Mouth	19,22N,14W	Ozark			x	x			B			
S. Fk. Spring R.	P	4.0	State Line	35,22N,8W	Howell			x	x			B			
S. Fk. Spring R.	C	11.0	35,22N,8W	32,23N,8W	Howell			x	x			B			
Trib. to S. Fk. Spring R.	P	1.0	Mouth	34,22N,8W	Howell			x	x			B			
S. Fk. Weaubleau Cr.	C	5.0	Mouth	20,36N,24W	St. Clair			x	x			/x/A			
Trib. to S. Fk. Weaubleau Cr.	C	6.0	Mouth	25,36N,24W	St. Clair	Hickory		x	x			B			
S. Flat Cr.	P	7.1	Mouth	27,43N,22W	Pettis	Benton		x	x			B			
S. Flat Cr.	C	0.9	27,43N,22W	27,43N,22W	Benton			x	x			B			
Trib. to S. Flat Cr.	C	2.4	Mouth	24,43N,22W	Benton			x	x			B			
Trib. to S. Flat Cr.	C	1.1	Mouth	03,43N,21W	Pettis			x	x			B			
S. Grand R.	P	/48.0/62.5	Mouth	02,44N,33W	Henry	Cass		x	x			B	x		
S. Indian Cr.	P	9.0	24,24N,31W	1,23N,30W	Newton	McDonald		x	x		x	B			
S. Moreau Cr.	P	20.5	1,43N,13W	29,43N,14W	Cole	Miller		x	x			/x/A	x		
S. Moreau Cr.	C	9.0	29,43N,14W	7,42N,15W	Moniteau	Miller		x	x			/x/A	x		
S. Moreau Cr.	C	6.5	7,42N,15W	31,42N,15W	Miller			x	x			B			
Trib. to S. Moreau Cr.	C	0.5	Mouth	25,43N,14W	Cole			x	x			B			
Trib. to S. Moreau Cr.	C	0.5	Mouth	19,43N,13W	Cole			x	x			B			
Trib. to S. Moreau Cr.	C	1.5	Mouth	28,43N,15W	Moniteau			x	x			B			
Trib. to S. Moreau Cr.	P	1.0	Mouth	31,43N,15W	Moniteau			x	x			B			
Trib. to S. Moreau Cr.	C	1.0	31,43N,15W	25,43N,16W	Moniteau			x	x			B			
Trib. to S. Moreau Cr.	C	1.5	Mouth	29,42N,15W	Miller			x	x			B			
Trib. to S. Moreau Cr.	C	1.0	Mouth	30,43N,15W	Moniteau			x	x			B			
S. Mud Cr.	C	3.0	Mouth	2,54N,27W	Ray			x	x			B			
S. Prong Beaverdam Cr.	C	6.5	5,24N,4E	27,25N,3E	Ripley			x	x			B			
S. Prong Jacks Fk.	P	6.0	29,28N,7W	21,28N,8W	Texas			x	x			B			
S. Prong Jacks Fk.	C	4.0	21,28N,8W	14,28N,9W	Texas			x	x			B			
S. Prong L. Black R.	P	5.5	9,24N,3E	Hwy. 21	Ripley			x	x			B			
S. Prong L. Black R.	C	6.0	Hwy. 21	33,25N,2E	Ripley			x	x			B			
S. Rock Cr.	C	3.0	Mouth	14,35N,3W	Crawford			x	x			B			
S. Spencer Cr.	C	8.0	Mouth	6,53N,4W	Ralls	Pike		x	x			B			
S. Spring Cr.	P	5.0	Mouth	23,25N,16W	Douglas			x	x			B			
S. Wyaconda R.	P	9.0	26,65N,9W	4,65N,10W	Clark	Scotland		x	x			B		x	
S. Wyaconda R.	C	17.5	4,65N,10W	32,67N,12W	Scotland			x	x			B			
Sac R.	P	40.0	23,37N,26W	Stockton Lake Dam	St. Clair	Cedar	x	x	x			/x/A	x		
Sac R.	P	32.5	1,31N,26W	15,29N,24W	Dade	Greene	x	x	x			/x/A	x		
Sac R.	C	3.0	15,29N,24W	19,29N,23W	Greene			x	x			B			
Sadler Br.	C	0.8	Mouth	17,35N,24W	Polk			x	x			B			
Salem Cr.	C	2.0	Mouth	26,37N,5E	St. Francois			x	x			B			
Salem Springs Cr.	C	1.0	Mouth	11,32N,17W	Laclede			x	x			B			
Saline Cr.	P	12.0	Mouth	Hwy. 54	Miller			x	x			/x/A	x		
Saline Cr.	P	10.5	Mouth	13,36N,9E	Perry			x	x			/x/A			
Saline Cr.	P	12.0	13,36N,9E	16,35N,8E	Ste. Genevieve			x	x	x		/x/A			
Saline Cr.	C	3.0	16,35N,8E	11,35N,7E	Ste. Genevieve			x	x			B			
Saline Cr.	P	4.0	Mouth	32,35N,3E	Iron			x	x			B			
Saline Cr.	C	1.0	32,35N,3E	Hwy. 21	Iron			x	x			B			
Saline Cr.	P	1.0	Mouth	Sur 3011,43N,5E	Jefferson			x	x			B			

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DWS-Drinking Water Supply
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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Saline Cr.	C	3.0	Sur 3011, 43N,5E	Sur 3011,43N,5E	Jefferson				x	x		B			
Saline Cr.	P	5.5	Mouth	12,33N,7E	Madison				x	x		B			
Saline Cr.	C	0.5	12,33N,7E	7,33N,7E	Madison				x	x		B			
Salley Br.	C	0.1	Mouth	27,39N,22W	Benton				x	x		B			
Sals Cr.	C	1.5	Mouth	14,29N,13E	Scott				x	x		B			
Sals Cr. Div. Chan.	C	2.5	Mouth	3,29N,13E	Scott				x	x		B			
Salt Br.	C	4.0	Mouth	35,53N,21W	Saline				x	x		B			
Salt Br.	C	7.0	Mouth	20,50N,22W	Saline				x	x		B			
Salt Cr.	C	14.0	Mouth	25,55N,20W	Chariton				x	x		B			
Salt Cr.	P1	3.0	Mouth	33,49N,15W	Howard				x	x		B			
Salt Cr.	C	10.0	33,49N,15W	31,50N,15W	Howard				x	x		B			
Salt Cr.	P	2.0	Mouth	Sur. 3328,49N, 17W	Howard				x	x		B			
Salt Cr.	C	3.0	Mouth	17,38N,26W	St. Clair				x	x		B			
Trib. to Salt Cr.	C	1.0	Mouth	9,38N,26W	St. Clair				x	x		B			
Salt Fk.	C	5.0	Mouth	2,51N,15W	Howard				x	x		B			
Salt Fk.	P	25.0	Mouth	Hwy. 65	Saline				x	x		B		x	
Salt Fk.	C	19.0	Hwy. 65	Hwy. 20	Saline	Lafayette			x	x		B			
Salt Pond Cr.	P	3.0	Mouth	25,49N,23W	Saline				x	x		B			
Salt Pond Cr.	C	3.0	25,49N,23W	14,49N,23W	Saline				x	x		B			
Salt R.	P1	15.0	Mouth	Hwy. 79	Pike			x	x	x		/x/A	x		
Salt R.	P	29.0	Hwy. 79	Re-Reg Dam	Pike	Ralls		x	x	x		/x/A	x	x	
Salt R.	P1	10.0	Re-Reg Dam	Cannon Dam	Ralls			x	x	x		/x/A	x	x	
Sampson Cr.	P	13.0	Mouth	19,62N,29W	Daviess	Harrison			x	x		B			
Sampson Cr.	C	5.0	19,62N,29W	1,62N,30W	Gentry				x	x		B			
Sand Cr.	C	4.0	Mouth	11,64N,37W	Nodaway				x	x		B			
Sand Cr.	C	2.0	Mouth	36,65N,16W	Schuyler				x	x		B			
Sand Cr.	C	15.0	Mouth	12,43N,26W	Henry				x	x		B			
Sand Cr.	C	1.8	Mouth	34,36N,06E	St. Francois				x	x		B			
Sand Cr.	P	1.3	Mouth	18,42N,4E	Jefferson				x	x		B			
Sand Hollow	C	0.3	Mouth	24,31N,10W	Texas				x	x		B			
Sand Run	C	2.0	Mouth	24,48N,1W	Lincoln				x	x		B			
Sandy Cr.	C	8.0	Mouth	25,50N,1E	Lincoln				x	x		B			
Sandy Cr.	C	5.5	Mouth	33,52N,2W	Lincoln	Pike			x	x		B			
Sandy Cr.	C	6.0	Mouth	23,51N,5W	Montgomery	Audrain			x	x		B			
Sandy Cr.	C	10.0	Mouth	15,65N,25W	Harrison	Mercer			x	x		B			
Sandy Cr.	C	3.0	Mouth	19,66N,17W	Putnam				x	x		B			
Sandy Cr.	C	6.0	Mouth	Sur 1987,41N,5E	Jefferson				x	x		B			
Sandy Cr.	C	1.0	36,35N,10E	1,34N,10E	Perry				x	x		B			
Sandy Cr.	P	2.0	Mouth	11,33N,11E	Cape Girardeau				x	x		B			
Sandy Cr.	C	0.5	11,33N,11E	3,33N,11E	Cape Girardeau				x	x		B			
Trib. to Sandy Cr.	P	0.1	Mouth	33,42N,04E	Jefferson				x	x		B			
Trib. to Sandy Cr.	P	0.2	Mouth	32,42N,04E	Jefferson				x	x		B			
Sanford Cr.	C	1.0	Mouth	4,43N,10W	Cole				x	x		B			
Sara Br.	C	3.0	Mouth	01,32N,18W	Webster				x	x		B			
Sardine Cr.	C	1.5	Mouth	2,29N,25W	Lawrence				x	x		B			
Sawmill Hollow	C	2.0	Mouth	17,24N,11W	Ozark				x	x		B			
Sawyer Cr.	P	5.0	Mouth	12,28N,20W	Greene				x	x		B			
Schawanee Spr. Br.	C	2.0	Mouth	5,34N,11E	Perry				x	x		B			
Trib. to Schawanee Spr. Br.	C	1.0	Mouth	33,35N,11E	Perry				x	x		B			
School Hollow Cr.	P	1.0	Mouth	07,41N,09W	Osage				x	x		B			
Schoolhouse Hollow	C	0.3	Mouth	19,31N,09W	Texas				x	x		B			
Schuler Cr.	P	3.2	26,28N,23W	28,28N,23W	Greene				x	x		B			
Schuler Cr.	P	0.2	Mouth	Hwy 50	Gasconade				x	x		B			
Schulte Cr.	C	5.0	Mouth	10,32N,21W	Polk				x	x		B			
Scott Br.	C	0.5	Mouth	5,44N,15W	Moniteau				x	x		B			
Scott Br.	C	1.5	Mouth	21,37N,2W	Crawford				x	x		B			
Scott Br.	C	1.0	Mouth	5,37N,1E	Washington				x	x		B			
Second Cr.	C	8.0	Mouth	29,52N,33W	Clay	Platte			x	x		B			
Second Cr.	P	6.5	Mouth	12,43N,6W	Gasconade				x	x		B			

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Silver Cr.	C	11.0	Mouth	34,53N,15W	Chariton	Randolph		x	x			B			
Silver Cr.	P	2.5	Mouth	25,27N,33W	Newton			x	x			B			
Silver Cr.	C	1.6	Mouth	01,23N,21W	Taney			x	x			B			
Silver Fk.	C	16.5	Mouth	33,51N,11W	Boone			x	x			/x/A			
Trib. to Silver Fk.	C	1.5	Mouth	19,51N,11W	Boone			x	x			B			
Trib. to Silver Fk.	C	1.0	Mouth	28,50N,13W	Boone			x	x			B			
Silver Lake Br.	C	1.5	Mouth	13,26N,23W	Stone			x	x			B			
Simms Cr.	C	2.0	Mouth	15,37N,27W	St. Clair			x	x			B			
Simpson Br.	C	2.0	Mouth	6,38N,2E	Washington			x	x			B			
Sims Br.	C	1.0	Mouth	23,31N,22W	Greene			x	x			B			
Sinking Cr.	P	1.0	Mouth	10,30N,26W	Dade			x	x			B			
Sinking Cr.	C	2.0	10,30N,26W	12,30N,26W	Dade			x	x			B			
Sinking Cr.	P	5.0	12,30N,26W	16,30N,25W	Dade			x	x			B			
Sinking Cr.	P	21.0	Mouth	8,32N,3W	Shannon	Dent		x	x	x		/x/A			
Sinking Cr.	P	18.5	Mouth	19,31N,1E	Reynolds			x	x			B			
Skinner Cr.	C	0.8	Mouth	09,42N,03W	Franklin			x	x			B			
Skull Cr.	C	0.5	Mouth	10,47N,19W	Cooper			x	x			B			
Skullbones Cr.	C	1.1	Mouth	35,42N,03E	Jefferson			x	x			B			
Slabtown Br.	C	3.3	Mouth	23,33N,10W	Texas			x	x			B			
Slagle Cr.	P	7.0	Mouth	17,32N,22W	Polk			x	x			B			
Slagle Cr.	P	2.0	Mouth	18,28N,9E	Bollinger			x	x			B			
Slater Br.	C	2.0	Mouth	Sur 1852,33N,6E	Madison			x	x			B			
Slater Br.	C	3.0	Mouth	34,30N,32W	Jasper			x	x			B			
Slaughter Br.	C	3.0	Mouth	4,43N,2W	Franklin			x	x			B			
Smiley Cr.	C	3.0	Mouth	36,46N,17W	Cooper			x	x			B			
Smith Br.	C	0.5	Mouth	16,47N,9W	Callaway			x	x			B			
Smith Cr.	C	1.5	Mouth	26,47N,11W	Callaway			x	x			B			
Smith Cr.	C	10.5	Mouth	2,43N,17W	Moniteau	Morgan		x	x			/x/A			
Smith Cr.	C	7.0	Mouth	18,48N,5W	Montgomery			x	x			B			
Smith Fk.	C	2.0	Mouth	15,56N,31W	Clinton			x	x			B			
Smith Hollow	C	1.0	Mouth	30,23N,11W	Ozark			x	x			B			
Smith Hollow Cr.	P	1.1	Mouth	26,37N,10W	Phelps			x	x			B			
Smith Hollow Cr.	C	1.7	26,37N,10W	36,37N,10W	Phelps			x	x			B			
Snag Cr.	C	1.5	Mouth	21,34N,27W	Cedar			x	x			B			
Snapps Br.	C	1.5	Mouth	11,36N,1W	Washington			x	x			B			
Sni-a-bar Cr.	P	32.0	Mouth	30,48N,29W	Lafayette	Jackson		x	x			B	x		
Sni-a-bar Cr.	C	2.0	30,48N,29W	5,47N,29W	Jackson			x	x			B			
Snowden Cr.	C	2.0	Mouth	1,32N,7E	Madison			x	x			B			
Soap Cr.	P	1.0	Mouth	32,41N,17W	Morgan			x	x			B			
Soap Cr.	P	0.8	Mouth	19,42N,04W	Gasconade			x	x			B			
Soap Cr.	C	4.1	19,42N,04W	11,42N,05W	Gasconade			x	x			B			
Sons Cr.	P	3.0	Mouth	27,32N,27W	Dade			x	x			B			
Sons Cr.	C	9.0	27,32N,27W	31,31N,27W	Dade			x	x			B			
South Cr.	P	3.8	07,28N,22W	34,29N,22W	Greene			x	x			B			
South Dry Sac. Cr.	C	2.0	5,29N,20W	3,29N,20W	Greene			x	x			B			
South Dry Sac. R.	P	1.5	Mouth	36,30N,22W	Greene			x	x			B			
South Fk.	C	14.0	Mouth	08,46N,23W	Saline	Pettis		x	x			B			
South Fk.	C	4.5	Mouth	25,24N,15W	Ozark			x	x			B			
South R.	P1	2.0	Mouth	16,58N,5W	Marion			x	x			B			
South R.	C	15.0	16,58N,5W	Hwy. 36	Marion			x	x			B			
Sparrow Foot Cr.	C	2.0	Mouth	15,41N,25W	Henry			x	x			B			
Spence Cr.	C	3.0	1,28N,15W	19,28N,15W	Wright			x	x			B			
Spencer Cr.	P	11.0	Mouth	Sur 3177(31), 55N,4W	Ralls			x	x			B			
Spencer Cr.	C	18.0	Sur 3177(31), 55N,4W	23,53N,6W	Ralls			x	x			B			
Spencer Cr.	C	1.5	Mouth	Sur 735,47N,4E	St. Charles			x	x			B			
Spencer Cr.	C	2.0	Mouth	14,37N,17W	Camden			x	x			B			
Spillway Ditch	P	13.5	29,23N,15E	33,25N,16E	New Madrid	Mississippi		x	x			/x/A			
Splice Cr.	P	2.0	Mouth	7,47N,14W	Moniteau			x	x			/x/A	x		
Splice Cr.	C	2.5	7,47N,14W	11,47N,15W	Moniteau			x	x			B			
Trib. to Splice Cr.	C	0.5	Mouth	5,47N,14W	Moniteau			x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Spring Alec Hollow	P	1.5	Mouth	29,30N,2W	Shannon			x	x			B			
Spring Alec Hollow	C	1.0	29,30N,2W	21,30N,2W	Shannon			x	x			B			
Spring Br.	P	1.0	Mouth	19,41N,17W	Morgan			x	x		x	B			
Spring Br.	P	1.5	Mouth	4,29N,22W	Greene			x	x			B			
Spring Br.	P	10.0	Mouth	Hwy. 32	Dent			x	x			B			
Spring Cr.	P	18.0	Mouth	26,64N,18W	Adair	Sullivan	x	x	x			/x/A			
Spring Cr.	C	5.0	26,64N,18W	Hwy. 129	Sullivan			x	x			B			
Spring Cr.	P	6.0	Mouth	8,34N,24W	Cedar	Polk		x	x			B			
Spring Cr.	P	5.0	Mouth	17,39N,8W	Maries			x	x			B			
Spring Cr.	P	6.5	Mouth	31,35N,9W	Phelps		x	x	x		x	/x/A	x		
Spring Cr.	P	11.5	31,35N,9W	16,33N,9W	Phelps	Texas		x	x			B			
Spring Cr.	C	3.5	16,33N,9W	26,33N,9W	Texas			x	x			B			
Spring Cr.	P	2.5	Mouth	4,41N,2W	Franklin			x	x		x	B			
Spring Cr.	C	4.5	4,41N,2W	17,41N,2W	Franklin			x	x			B			
Spring Cr.	P	5.5	Mouth	12,26N,24W	Stone			x	x		x	B			
Trib. to Spring Cr.	P	1.0	Mouth	18,26N,23W	Stone			x	x			B			
Spring Cr.	C	4.0	Mouth	124/28,49N, 01W	Lincoln			x	x			B			
Trib. to Spring Cr.	C	0.7	Mouth	26,35N,10W	Phelps			x	x			B			
Trib. to Spring Cr.	C	0.8	Mouth	14,38N,08W	Phelps			x	x			B			
Trib. to Spring Cr.	P	0.8	14,38N,08W	10,38N,08W	Phelps			x	x			B			
Spring Cr.	P	5.0	Mouth	14,23N,11W	Ozark	Howell		x	x			B	x		
Spring Cr.	P	7.5	14,23N,11W	17,23N,10W	Ozark			x	x			/x/A	x		x
Spring Cr.	C	8.0	17,23N,10W	6,23N,9W	Howell			x	x			B			
Spring Cr.	P	16.0	Mouth	23,26N,10W	Douglas	Howell		x	x			B	x		
Spring Cr.	C	2.0	23,26N,10W	12,26N,10W	Howell			x	x			B			
Trib. to Spring Cr.	C	1.5	Mouth	13,26N,10W	Howell			x	x			B			
Spring Cr.	C	1.0	Mouth	30,23N,8W	Howell			x	x			B			
Spring Cr.	P	6.0	Mouth	06,24N,13W	Douglas	Ozark		x	x		x	B	x		
Spring Cr.	C	5.0	6,24N,13W	8,24N,13W	Ozark			x	x			B			
Spring Cr.	P	6.0	Mouth	24,25N,5W	Oregon			x	x			B			
Spring Cr.	C	6.0	24,25N,5W	3,25N,5W	Oregon			x	x			B			
Spring Cr.	C	4.0	27,25N,9E	10,25N,9E	Stoddard			x	x			B			
Spring Fk.	P	4.7	Mouth	16,44N,21W	Pettis			x	x			B			
Spring Fk.	C	6.3	16,44N,21W	01,43N,21W	Pettis	Benton		x	x			B			
Trib. to Spring Fk.	C	0.7	Mouth	36,44N,21W	Pettis			x	x			B			
Trib. to Spring Fk.	C	1.6	Mouth	02,43N,21W	Pettis	Benton		x	x			B			
Spring Hollow	C	10.0	Bennett Sprg.	27,34N,17W	LaClede			x	x		x	B			
Spring R.	P	0.5	22,28N,34W	15,28N,34W	Jasper		x	x	x		x	/x/A	x		x
Spring R.	P	58.5	State Line	20,28N,27W	Jasper	Lawrence	x	x	x		x	/x/A	x		x
Spring R.	P	9.5	20,28N,27W	13,27N,27W	Lawrence		x	x	x		x	/x/A	x		x
Spring R.	P	10.0	13,27N,27W	28,26N,26W	Lawrence			x	x			/x/A	x		
Spring R.	C	1.0	28,26N,26W	27,26N,26W	Lawrence			x	x			B			
Trib. to Spring R.	P	3.0	Mouth	5,28N,28W	Lawrence			x	x			B			
Trib. to Spring R.	C	3.5	Mouth	23,29N,33W	Jasper			x	x			B			
Trib. to Spring R.	C	1.0	Mouth	12,28N,28W	Lawrence			x	x			B			
Trib. to Spring R.	C	1.0	16,28N,28W	15,28N,28W	Lawrence			x	x			B			
Spring Valley Cr.	P	7.5	Mouth	35,30N,5W	Shannon			x	x			B			
Spring Valley Cr.	C	10.0	35,30N,5W	6,29N,5W	Shannon			x	x			B			
Spurlock Hollow	C	2.7	Mouth	15,30N,11W	Texas			x	x			B			
Squaw Cr.	P	21.0	11,60N,39W	33,64N,38W	Holt	Atchison		x	x			B			
St James Bayou	C	6.0	2,24N,16E	2,25N,16E	Mississippi			x	x			B			
St. Francis R.	P	128.0	State Line	Wappapello Dam	Dunklin	Wayne	x	x	x			/x/A	x		
St. Francis R.	P	86.0	Sur 727,28N, 5E	16,35N,4E	Wayne	St. Francois	x	x	x		x	/x/A	x		
St. Francis R.	C	3.0	16,35N,4E	Ozark Ore Lake Dam	St. Francois			x	x			B			
Old Ch. St. Francis R.	P	4.5	35,22N,8E	34,22N,8E	Dunklin			x	x			B			
Trib. to St. Francis R.	C	1.0	Mouth	33,31N,5E	Madison			x	x			B			
Trib. to St. Francis R.	C	1.0	Mouth	9,35N,4E	St. Francois			x	x			B			
Old Ch. St. Francis R.	C	8.0	32,22N,8E	15,22N,8E	Dunklin			x	x			B			
St. James Ditch	C	3.0	11,23N,15E	1,23N,15E	New Madrid			x	x			B			
St. Johns Bayou	P	4.0	Mouth	29,23N,15E	New Madrid			x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
St. Johns Cr.	P	15.0	Mouth	12,43N,2W	Franklin			x	x			B			
St. Johns Cr.	C	8.0	12,43N,2W	19,43N,2W	Franklin			x	x			B			
Trib. to St. John's Cr.	C	1.5	Mouth	18,43N,2W	Franklin			x	x			B			
Trib. to St. John's Cr.	C	2.0	Mouth	18,43N,1W	Franklin			x	x			B			
Trib. to St. John's Cr.	C	1.5	Mouth	25,44N,2W	Franklin			x	x			B			
St. Johns Ditch	P	35.0	29,23N,15E	25,28N,13E	New Madrid	Scott		x	x			B			
St. Johns Ditch	C	4.0	25,28N,13E	Sur 1014,28N,14E	Scott		x	x	x			/x/A			
St. Johns Div. Ditch	C	5.0	11,23N,15E	16,23N,16E	New Madrid			x	x			B			
St. Johns Div. Ditch	C	3.5	4,23N,16E	12,23N,16E	Mississippi			x	x			B			
Stahl Cr.	P	6.5	Mouth	25,29N,27W	Lawrence			x	x			B			
Trib. to Stahl Cr.	C	2.0	Mouth	22,29N,27W	Lawrence			x	x			B			
Stanley Cr.	P	2.0	Mouth	18,27N,8E	Wayne			x	x			B			
Stanley Cr.	C	2.0	18,27N,8E	11,27N,7E	Wayne			x	x			B			
Starks Cr.	P	11.5	Mouth	12,37N,21W	Hickory			x	x	x		B			
Starks Cr.	C	3.0	12,37N,21W	31,37N,20W	Hickory			x	x	x		B			
Trib. to Starks Cr.	C	1.7	Mouth	18,38N,20W	Hickory			x	x			B			
Trib. to Starks Cr.	C	0.5	Mouth	18,37N,20W	Hickory			x	x			B			
Trib. to Starks Cr.	C	0.8	Mouth	19,37N,20W	Hickory			x	x			B			
Trib. to Starks Cr.	C	1.1	Mouth	32,38N,20W	Hickory			x	x			B			
Trib. to Starks Cr.	C	1.0	Mouth	02,37N,21W	Hickory			x	x			B			
Starvey Cr.	C	3.0	Mouth	15,32N,18W	Dallas			x	x			B			
Stater Cr.	P	2.0	Mouth	27,40N,2W	Crawford			x	x			B			
Stater Cr.	C	1.5	27,40N,2W	29,40N,2W	Crawford			x	x			B			
Steins Cr.	C	16.0	25,33N,15W	33,31N,15W	Laclede	Wright		x	x			B			
Sterett Cr.	C	1.5	Mouth	21,41N,22W	Benton	Wright		x	x			B			
Steuber Hollow Cr.	P	0.6	Mouth	13,41N,09W	Osage			x	x			B			
Stevens Br.	C	8.0	Mouth	29,47N,17W	Cooper			x	x			B			
Stevenson Bayou	C	14.0	33,25N,16E	31,27N,17E	Mississippi			x	x			B			
Stewart Cr.	P	1.0	Mouth	12,27N,19W	Christian			x	x			B			
Stewart Cr.	C	3.0	12,27N,19W	17,27N,18W	Christian			x	x			B			
Stick Br.	C	0.2	Mouth	21,36N,21W	Hickory			x	x			B			
Stillcamp Ditch	C	12.0	Mouth	35,24N,6E	Butler		x	x	x			B			
Stillhouse Br.	C	2.0	Mouth	26,62N,31W	Gentry			x	x			B			
Stinking Claude Cr.	C	1.0	Mouth	22,35N,22W	Polk			x	x			B			
Stinking Cr.	C	13.0	24,56N,16W	13,58N,16W	Macon			x	x			B			
Stinking Cr.	C	4.0	Mouth	5,34N,28W	Cedar			x	x			B			
Stinson Cr.	C	9.0	Mouth	16,47N,9W	Callaway			x	x			B			
Stoak Cr.	C	2.0	Mouth	14,45N,26W	Johnson			x	x			B			
Stockton Br.	C	5.0	Mouth	4,34N,26W	Cedar			x	x			B			
Trib. to Stockton Br.	C	1.5	Mouth	6,34N,26W	Cedar			x	x			B			
Stone Hill Br.	C	2.0	Mouth	Hwy. 72	Dent			x	x			B			
Stone Hill Br.	P	2.0	Hwy. 72	31,34N,3W	Dent			x	x			B			
Stories Cr.	C	2.5	Mouth	16,29N,4W	Shannon			x	x			B			
Stouts Cr.	P	9.0	Mouth	33,24N,4E	Madison	Iron	x	x	x	x		B	x		
Stouts Cr.	P	3.0	33,34N,4E	1,33N,3E	Iron			x	x			B	x		
Stouts Cr.	C	0.5	1,33N,3E	2,33N,3E	Iron			x	x			B			
Trib. to Stouts Cr.	C	0.5	Mouth	6,33N,5E	Madison			x	x			B			
Trib. to Stouts Cr.	C	1.0	Mouth	5,33N,5E	Madison			x	x			B			
Trib. to Stouts Cr.	C	1.3	Mouth	36,34N,03E	Iron			x	x			B			
Straight Fk.	P	12.0	4,44N,16W	6,43N,17W	Moniteau	Morgan		x	x			/x/A			
Straight Fk.	C	6.0	6,43N,17W	36,43N,18W	Morgan			x	x			B			
Stream Mill Hollow	P	3.0	Mouth	27,32N,10W	Texas			x	x			B			
Stream Mill Hollow	C	2.0	27,32N,10W	28,32N,10W	Texas			x	x			B			
String Cr.	C	2.0	Mouth	20,45N,14W	Moniteau			x	x			B			
Stringtown Br.	C	1.5	Mouth	12,36N,1W	Washington			x	x			B			
Strobel Br.	C	2.0	Mouth	24,44N,14W	Cole			x	x			B			
Strobel Br.	P	1.0	Mouth	12,44N,14W	Cole			x	x			B			
Strobel Br.	C	1.5	12,44N,14W	35,45N,14W	Cole			x	x			B			
Trib. to Strobel Br.	C	0.5	Mouth	36,45N,13W	Cole			x	x			B			
Trib. to Strobel Br.	C	0.5	Mouth	1,44N,14W	Cole			x	x			B			
Strother Cr.	P	7.0	Mouth	33,34N,1W	Reynolds	Iron		x	x	x		B			
Sugar Br.	P	2.0	Mouth	12,48N,14W	Boone			x	x			B			

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												WBC	SCR	DWS	IND
Sugar Br.	C	2.0	12,48N,14W	I-70	Boone			x	x			B			
Sugar Camp Hollow	C	2.5	Mouth	17,23N,26W	Barry			x	x			B			
Sugar Cr.	P1	3.5	Mouth	17,64N,6W	Clark			x	x			B			
Sugar Cr.	C	10.0	17,64N,6W	29,65N,7W	Clark			x	x			B			
Sugar Cr.	C	7.0	Mouth	15,62N,7W	Lewis			x	x			B		x	
Sugar Cr.	C	1.5	Mouth	36,55N,3W	Pike			x	x			B			
Sugar Cr.	C	11.0	Mouth	Sur 1683,50N,1E	Lincoln			x	x			B			
Sugar Cr.	P	3.0	Mouth	2,54N,37W	Platte			x	x			B			
Sugar Cr.	C	6.5	2,54N,37W	28,55N,36W	Platte	Buchanan		x	x			B			
Sugar Cr.	P	8.0	Mouth	22,62N,26W	Grundy	Harrison		x	x			B			
Sugar Cr.	C	10.0	22,62N,26W	35,63N,27W	Harrison			x	x			B			
Sugar Cr.	C	4.0	Mouth	18,61N,15W	Adair			x	x			B			
Sugar Cr.	P	5.0	Mouth	Sugar Cr. Lake											
Sugar Cr.	C	2.0	Mouth	Dam 17,51N,13W	Randolph Boone			x	x			B			
Sugar Cr.	P	5.5	Mouth	9,41N,11W	Miller	Osage		x	x			[x]/A			
Sugar Cr.	C	15.1	Mouth	33,44N,30W	Cass			x	x			B			
Sugar Cr.	C	4.0	Mouth	33,45N,6W	Gasconade			x	x			B			
Sugar Cr.	C	4.0	Mouth	20,43N,5E	Jefferson			x	x			B			
Sugar Cr.	P	8.8	Mouth	23,41N,11W	Miller	Maries			x		x	B			
Sugar Fk.	P	1.0	8,23N,33W	5,23N,33W	McDonald			x	x			B			
Sugar Tree Br.	C	3.0	Mouth	34,52N,15W	Howard			x	x			B			
Sulphur Cr.	P	1.5	Mouth	15,51N,2W	Lincoln			x	x			B			
Sulphur Cr.	C	7.5	15,51N,2W	19,52N,2W	Lincoln	Pike		x	x			B			
Sulphur Cr.	P	4.0	Mouth	30,49N,16W	Howard			x	x			B			
Sulphur Cr.	C	6.0	30,49N,16W	26,50N,17W	Howard			x	x			B			
Sulphur Cr.	C	1.5	Mouth	9,31N,4E	Iron			x	x			B			
Summers Cr.	C	1.0	Mouth	19,32N,9E	Bollinger			x	x			B			
Surratt Cr.	C	1.0	Mouth	26,25N,19W	Christian			x	x			B			
Sutton Br.	P	0.5	Mouth	12,50N,2W	Lincoln			x	x			B			
Sutton Br.	C	2.5	12,50N,2W	10,50N,2W	Lincoln			x	x			B			
Sutton Br.	P	0.5	Mouth	35,32N,2E	Reynolds			x	x			B			
Sutton Hollow	C	0.5	Mouth	36,31N,3E	Iron			x	x			B			
Swan Cr.	C	2.0	Mouth	8,42N,8W	Osage			x	x			B			
Sutton's Cr.	P	1.0	Mouth	12,29N,4W	Shannon			x	x			B			
Swan Cr.	P	29.5	Mouth	4,26N,18W	Taney	Christian	x	x	x		x	[x]/A		x	
Swan Cr.	C	2.0	4,26N,18W	34,27N,18W	Christian	Douglas		x	x			B			
Swede Br.	C	0.1	Mouth	32,37N,21W	Hickory			x	x			B			
Sweet Spring Cr.	C	11.0	Mouth	18,53N,14W	Randolph			x	x			B			
Sweeten Cr.	C	1.0	Mouth	26,22N,13W	Ozark			x	x			B			
Sweet Hollow	C	3.0	Mouth	27,36N,17W	Laclede			x	x			B			
Sweeten Hollow	C	4.0	Mouth	5,24N,11W	Ozark			x	x			B			
Sweetwater Br.	P	1.0	Mouth	30,34N,7E	Madison			x	x			B			
Sweetwater Br.	C	1.0	30,34N,7E	28,34N,7E	Madison			x	x			B			
Trib. to Sweetwater Br.	C	1.0	Mouth	19,34N,7E	Madison			x	x			B			
Sweetwater Cr.	P	3.5	Mouth	28,31N,2W	Reynolds			x	x			B			
Sweezer Cr.	C	4.0	Mouth	20,58N,15W	Macon			x	x			B			
Swift Cr.	C	1.0	Mouth	15,26N,5E	Butler			x	x			B			
Swift Ditch	C	4.0	26,23N,14E	2,23N,14E	New Madrid			x	x			B			
Sycamore Br.	P	4.0	Mouth	7,29N,26W	Lawrence			x	x			B			
Sycamore Cr.	P	3.5	Mouth	20,29N,24W	Greene			x	x			B			
Sycamore Cr.	C	1.0	Mouth	15,27N,3W	Shannon			x	x			B			
Trib. to Lake of Ozarks	C	1.0	Mouth	5,39N,19W	Camden			x	x			B			
Trib. to Lake of Ozarks	C	1.0	Mouth	17,40N,19W	Camden			x	x			B			
Trib. to Lake of Ozarks	C	0.5	Mouth	2,39N,19W	Camden			x	x			B			
Trib. to Lk. Wappapello	P	0.5	Mouth	8,27N,7E	Wayne			x	x			B			
Trib. to Lk. Wappapello	C	0.5	8,27N,7E	9,27N,7E	Wayne			x	x			B			
Trib. to Table Rock Lk.	C	2.5	Mouth	3,22N,25W	Barry			x	x			B			
Trib. to Lake Niangua	C	1.0	Mouth	19,37N,17W	Camden			x	x			B			
Tabo Cr.	P	11.0	Mouth	27,50N,26W	Lafayette			x	x			B			
Tabo Cr.	C	9.1	27,50N,26W	20,49N,26W	Lafayette			x	x			B			
Tabor Cr.	P	5.0	Mouth	9,24N,10W	Douglas	Howell		x	x			B			

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Tabor Cr.	C	2.5	9,24N,10W	11,24N,10W	Howell			x	x			B			
Tanyard Cr.	C	3.5	Mouth	9,50N,16W	Howard			x	x			B			
Tarbuton Cr.	P	2.0	Mouth	4,26N,14W	Douglas			x	x			B			
Tarkio R.	P	33.0	Mouth	State Line	Holt	Atchison	x	x	x			B	x	x	
Tater Hill Cr.	C	8.0	Mouth	27,55N,24W	Carroll			x	x			B			
Trib. to Tater Hill Cr.	C	2.0	Mouth	22,55N,24W	Carroll			x	x			B			
Taum Sauk Cr.	C	4.5	Mouth	14,33N,2E	Reynolds			x	x			B			
Tavern Cr.	P	37.0	Mouth	5,38N,12W	Miller			x	x	x		/x/A	x		
Tavern Cr.	C	8.0	5,38N,12W	12,37N,13W	Miller	Pulaski		x	x	x		/x/A			
Trib. to Tavern Cr.	C	0.1	Mouth	01,44N,02E	Franklin			x	x			B			
Taylor Br.	C	1.2	Mouth	County Line	St. Francois			x	x			B			
Teague Br.	C	5.0	Mouth	1,33N,27N	Cedar			x	x			B			
Tebo Cr.	P	4.0	Mouth	6,42N,24W	Henry			x	x			B			
Tebo Cr.	C	0.5	6,42N,24W	31,43N,24W	Henry			x	x			B			
Tebo Cr.	C	3.5	Mouth	19,44N,21W	Pettis			x	x			B			
Teeter Cr.	C	3.0	Mouth	20,25N,14W	Douglas			x	x			B			
Ten Mile Cr.	P	8.0	Mouth	10,25N,4E	Butler			x	x			/x/A	x		
Ten Mile Cr.	C	13.0	10,25N,4E	30,26N,3E	Butler	Carter		x	x			/x/A	x		
Tenmile Pond	C	6.0	28,24N,16E	3,24N,16E	Mississippi			x	x			B			
Tennessee Cr.	C	7.0	Mouth	34,44N,31W	Cass			x	x			B			
Terre Bleue Cr.	P	4.5	Mouth	Sur 2107,37N,5E	St. Francois			x	x	x		/x/A			
Terre Bleue Cr.	C	5.0	Sur 2107,37N,5E	Sur 3062,37N,6E	St. Francois			x	x			B			
Trib. to Terre Bleue Cr.	P	1.8	Mouth	32,38N,05E	St. Francois			x	x			B			
Trib. to Terre Bleue Cr.	C	0.9	32,38N,05E	28,38N,05E	St. Francois			x	x			B			
Terrell Br.	P	2.0	Mouth	17,28N,18W	Webster			x	x			B			
Terrell Cr.	P	1.0	Mouth	2,27N,23W	Christian			x	x		x	B			
Terrell Cr.	P	4.0	2,27N,23W	5,27N,23W	Christian			x	x			B			
Terrell Cr.	C	1.0	5,27N,23W	6,27N,23W	Christian			x	x			B			
Terrell Cr.	P	1.0	6,27N,23W	1,27N,24W	Christian			x	x			B			
Thief Cr.	C	3.0	16,66N,16W	12,66N,16W	Schuyler			x	x			B			
Third Cr.	P	4.5	Mouth	5,42N,6W	Osage	Gasconade		x	x			B			
Third Cr.	C	6.5	5,42N,6W	7,42N,5W	Gasconade			x	x			B			
Trib. to Third Cr.	C	0.5	Mouth	6,42N,6W	Gasconade			x	x			B			
Trib. to Third Cr.	C	1.0	Mouth	5,42N,6W	Gasconade			x	x			B			
Third Fk. Platte R.	C	31.5	Mouth	25,61N,33W	Buchanan	Gentry		x	x			B			
Thomas Cr.	C	7.0	Mouth	3,35N,20W	Hickory	Dallas		x	x			B			
Trib. to Thomas Cr.	C	0.5	Mouth	26,36N,20W	Dallas			x	x			B			
Thompson Br.	C	1.0	Mouth	1,62N,31W	Gentry			x	x			B			
Thompson Cr.	C	1.0	Mouth	13,59N,27W	Daviess			x	x			B			
Thompson R.	P	65.0	Mouth	State Line	Livingston	Harrison	x	x	x			B		x	
Old Chan. Thompson R.	C	1.0	32,63N,25W	29,63N,25W	Grundy			x	x			B			
Old Chan. Thompson R.	C	3.0	9,57N,24W	4,57N,24W	Livingston			x	x			B			
Old Chan. Thompson R.	C	1.0	2,61N,25W	35,62N,25W	Grundy			x	x			B			
Old Chan. Thompson R.	C	1.0	8,62N,25W	5,62N,25W	Grundy			x	x			B			
Old Chan. Thompson R.	C	6.5	34,62N,25W	8,62N,25W	Grundy			x	x			B			
Three Hill Cr.	C	4.0	Mouth	7,37N,4E	St. Francois			x	x			B			
Three Mile Cr.	C	2.0	Mouth	21,40N,4W	Franklin	Crawford		x	x			B			
Thurman Cr.	P	2.5	Mouth	30,27N,32W	Newton			x	x			B			
Tick Cr.	C	4.0	Mouth	28,38N,9W	Phelps			x	x			B			
Tiff Cr.	P	1.7	Mouth	04,38N,04E	Jefferson			x	x			B			
Tiger Fk.	C	12.5	Mouth	10,59N,10W	Shelby			x	x			B			
Tobin Cr.	C	6.0	Mouth	34,65N,12W	Scotland			x	x			B			
Toby Hollow	C	2.0	Mouth	Toby Sprg.	Camden			x	x			B			
Todd Cr.	C	9.5	Mouth	15,52N,34W	Platte			x	x			B			
Todd Hollow	C	1.0	Mouth	3,36N,2W	Crawford			x	x			B			
Tombstone Cr.	P	1.5	Mouth	26,62N,26W	Harrison			x	x			B			
Tombstone Cr.	C	3.0	26,62N,26W	28,62N,26W	Harrison			x	x			B			
Toms Cr.	C	1.5	Mouth	10,32N,2W	Reynolds			x	x			B			
Tory Cr.	P	2.5	Mouth	27,26N,22W	Stone	Christian		x	x		x	B			
Town Br.	P	1.0	Mouth	13,36N,1W	Washington			x	x			B			
Town Br.	C	1.0	13,36N,1W	18,36N,1E	Washington			x	x			B			
Townsend Slough	C	1.7	Mouth	21,37N,32W	Vernon			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

IRR-Irrigation
LWW-Livestock & Wildlife Watering
AQL-Protection of Warm Water Aquatic Life

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Towstring Cr.	C	8.0	Mouth	20,56N,22W	Livingston			x	x			B			
Trace Cr.	P	1.0	Mouth	1,35N,1W	Washington			x	x			B			
Trace Cr.	C	1.0	1,35N,1W	6,35N,1E	Washington			x	x			B			
Trace Cr.	P	4.0	Mouth	4,30N,8E	Wayne	Bollinger		x	x	x		B			
Trace Cr.	C	3.0	4,30N,8E	26,31N,8E	Bollinger			x	x			B			
Trace Cr.	C	5.5	Mouth	29,32N,6E	Madison			x	x			B			
Trail Cr.	P	6.0	Mouth	Hwy. 136	Harrison			x	x			B			
Trail Cr.	C	5.0	Hwy. 136	19,64N,26W	Harrison			x	x			B			
Trail Cr.	C	4.0	Mouth	3,24N,12W	Ozark			x	x			B			
Troesser Cr.	C	0.2	Mouth	Hwy C	Osage			x	x			B			
Troublesome Cr.	P	3.5	Mouth	15,59N,7W	Marion			x	x			B		x	
Troublesome Cr.	C	34.0	15,59N,7W	5,61N,10W	Marion	Knox		x	x			B			
Truitt Cr.	P	1.5	Mouth	23,28N,27W	Lawrence			x	x			B			
Truitt Cr.	C	5.0	23,28N,27W	32,29N,26W	Lawrence			x	x			B			
Tub Cr.	C	1.0	Mouth	31,56N,28W	Caldwell			x	x			B			
Tunas Br.	C	3.0	Mouth	33,36N,19W	Dallas			x	x			B			
Tuque Cr.	P	3.5	Mouth	16,45N,1W	Warren			x	x			B			
Tuque Cr.	C	3.5	16,45N,1W	3,45N,1W	Warren			x	x			B			
Turkey Cr.	C	1.5	Mouth	Sur 3243(3), 55N,5W	Ralls			x	x			B			
Turkey Cr.	C	2.0	Mouth	Hwy. 15	Monroe			x	x			B			
Turkey Cr.	C	1.5	Mouth	21,49N,2W	Lincoln			x	x			B			
Turkey Cr.	P	5.0	Mouth	14,53N,25W	Carroll			x	x			B			
Turkey Cr.	C	3.5	14,53N,25W	34,54N,25W	Carroll			x	x			B			
Turkey Cr.	C	1.5	Mouth	26,62N,33W	Gentry			x	x			B			
Turkey Cr.	C	2.5	Mouth	33,57N,26W	Caldwell			x	x			B			
Turkey Cr.	P	2.4	Mouth	Hwy. 47	St. Francois			x	x			B			
Turkey Cr.	P	16.2	Mouth	05,38N,21W	Benton			x	x	x		B			
Turkey Cr.	C	5.8	05,38N,21W	22,38N,21W	Benton	Hickory		x	x			B			
Trib. to Turkey Cr.	C	1.9	Mouth	33,39N,21W	Benton			x	x			B			
Trib. to Turkey Cr.	C	1.8	Mouth	14,38N,21W	Hickory			x	x			B			
Trib. to Turkey Cr.	C	0.3	Mouth	09,38N,21W	Hickory			x	x			B			
Trib. to Turkey Cr.	C	1.0	Mouth	23,38N,21W	Hickory			x	x			B			
Trib. to Turkey Cr.	C	1.0	Mouth	29,57N,26W	Caldwell			x	x			B			
Turkey Cr.	C	12.0	Mouth	Hwy. 36	Chariton	Linn		x	x			B			
Turkey Cr.	C	3.0	Mouth	12,66N,17W	Putnam			x	x			B			
Turkey Cr.	C	2.0	Mouth	17,59N,16W	Macon			x	x			B			
Trib. to Turkey Cr.	C	0.5	Mouth	17,59N,16W	Macon			x	x			B			
Turkey Cr.	C	3.0	Mouth	3,44N,11W	Callaway			x	x			B			
Turkey Cr.	C	5.0	Mouth	Hwy. 63	Boone			x	x			/x/A			
Turkey Cr.	C	2.6	Mouth	20,47N,21W	Pettis			x	x			B			
Trib. to Turkey Cr.	C	0.5	Mouth	20,47N,21W	Pettis			x	x			B			
Turkey Cr.	P	5.5	Mouth	Hwy. 215	Polk			x	x			B			
Turkey Cr.	C	2.5	Hwy. 215	2,31N,24W	Polk			x	x			B			
Turkey Cr.	C	15.0	Mouth	34,35N,25W	St. Clair	Cedar		x	x			/x/A			
Turkey Cr.	P	2.0	Mouth	32,33N,14E	Cape Girardeau			x	x			B			
Turkey Cr.	C	2.0	32,33N,14E	36,33N,13E	Cape Girardeau			x	x			B			
Turkey Cr.	C	1.0	Mouth	Sur 3022,40N,2E	Washington			x	x			B			
Turkey Cr.	P	8.0	Mouth	21,30N,7E	Wayne			x	x			B			
Turkey Cr.	P	1.0	Mouth	32,34N,8E	Madison			x	x			B			
Turkey Cr.	P	2.0	Mouth	16,22N,21W	Taney			x	x		x	B	x		
Turkey Cr.	C	4.0	16,22N,21W	4,21N,21W	Taney			x	x			B			
Turkey Cr.	C	2.0	Mouth	22,22N,16W	Ozark			x	x			B			
Turkey Cr.	C	9.0	Mouth	15,24N,15W	Ozark			x	x			B			
Turkey Cr.	C	1.5	Mouth	9,26N,15W	Douglas			x	x			B			
Turkey Cr.	C	4.0	Mouth	36,34N,5E	Madison			x	x			B			
Turkey Cr.	C	2.5	Mouth	34,27N,8E	Stoddard			x	x			B			
Turkey Cr.	P	7.0	State Line	35,28N,33W	Jasper			x	x			B			
Turkey Cr.	P	5.0	35,28N,33W	9,27N,32W	Jasper			x	x			/x/A			
Turnback Cr.	P	19.5	Mouth	35,30N,26W	Dade			x	x			/x/A			
Turnback Cr.	P	14.0	35,30N,26W	24,28N,25W	Dade	Lawrence		x	x		x	/x/A	x		

[BTG]

IRR Irrigation LWW Livestock & Wildlife Watering AQL Protection of Warm Water Aquatic Life

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Trib. to Turnback Cr.	P	1.0	Mouth	24,29N,26W	Lawrence			x	x			B			
Turnbo Cr.	P	6.5	Mouth	16,30N,18W	Webster			x	x			B			
Turner Cr.	P	4.0	Mouth	33,29N,20W	Greene			x	x			B			
Turtle Spr. Br.	C	3.0	Mouth	23,45N,14W	Moniteau			x	x			B			
Tutt Br.	C	2.0	Mouth	27,47N,17W	Cooper			x	x			B			
Twelve Mile Cr.	P	7.5	Mouth	12,31N,6E	Madison			x	x	x		/x/A			
Twelve Mile Cr.	C	6.0	12,31N,6E	17,32N,7E	Madison			x	x	x		B			
Trib. to Twelve Mile Cr.	C	1.0	Mouth	6,31N,7E	Madison			x	x			B			
Twomile Cr.	C	2.0	Mouth	28,36N,32W	Vernon			x	x			B			
Tyler Br.	C	2.5	36,35N,10E	34,35N,10E	Perry			x	x			B			
Tyrey Cr.	P	0.8	12,40N,02E	11,40N,02E	Jefferson			x	x			B			
Upper Peavine Cr.	C	2.0	Mouth	15,40N,7W	Maries			x	x			B			
Van Meter Ditch	C	4.5	24,52N,22W	4,51N,22W	Saline			x	x			B			
Vance Br.	C	0.5	Mouth	05,39N,22W	Benton			x	x			B			
Varney R. Ditch	P	14.0	12,17N,7E	34,19N,9E	Dunklin			x	x			B			
Varney R. Ditch	C	8.0	34,19N,9E	35,20N,9E	Dunklin			x	x			B			
Village Cr.	P	1.5	Mouth	5,33N,7E	Madison			x	x			B			
Village Cr.	C	3.0	5,33N,7E	34,34N,7E	Madison			x	x			B			
Virgin Cr.	C	1.0	Mouth	15,29N,9E	Bollinger			x	x			B			
W. Fk. Big Cr.	P	18.0	9,63N,28W	34,65N,28W	Harrison			x	x			B			
W. Br. Clark Fk.	C	4.0	Mouth	8,47N,16W	Cooper			x	x			B			
W. Br. Crawford Cr.	C	12.2	Mouth	21,47N,30W	Jackson			x	x			B			
W. Br. Mill Cr.	C	0.5	18,37N,3E	19,37N,3E	Washington			x	x			B			
W. Cow Cr.	C	4.0	25,51N,21W	11,51N,21W	Saline			x	x			B			
W. Elk Fk.	C	2.5	Mouth	05,44N,28W	Pettis			x	x			B			
W. Fk. Bear Cr.	P	2.0	Mouth	9,29N,6E	Wayne			x	x			B			
W. Fk. Bear Cr.	C	1.0	9,29N,6E	8,29N,6E	Wayne			x	x			B			
W. Fk. Bee Br.	C	7.0	Mouth	21,56N,17W	Chariton			x	x			B			
W. Fk. Benton Cr.	C	2.5	Mouth	7,36N,5W	Crawford			x	x			B			
W. Fk. Big Cr.	C	14.0	34,65N,28W	22,66N,28W	Harrison			x	x			B			
W. Fk. Big Cr.	P	1.0	Mouth	31,31N,7E	Madison			x	x			B			
W. Fk. Big Cr.	C	1.5	31,31N,7E	36,31N,6E	Madison			x	x			B			
W. Fk. Big Cr.	C	3.0	Mouth	3,22N,17W	Taney			x	x			B			
W. Fk. Black R.	P	[27.0]/31.7	[17,32N,2E]	25,33N,03W	Reynolds			x	x	x		/x/A			
W. Fk. Black R.	C	0.5	25,32N,3W	26,32N,3W	Reynolds			x	x			B			
W. Fk. Bull Cr.	C	4.0	Mouth	8,26N,20W	Christian			x	x			B			
W. Fk. Clear Cr.	C	12.1	Mouth	17,35N,30W	Vernon			x	x			B			
Trib. to W. Fk. Clear Cr.	C	0.8	Mouth	35,36N,30W	Vernon			x	x			B			
W. Fk. Crooked R.	P	5.0	Mouth	Hwy. 13	Ray		x	x	x			B			
W. Fk. Crooked R.	C	6.0	Hwy. 13	18,52N,28W	Ray			x	x			B			
W. Fk. Cuivre R.	P	35.0	11,49N,1W	Pike Co. Line	Lincoln	Montgomery		x	x			/x/A			
W. Fk. Cuivre R.	C	17.0	Pike Co. Line	Hwy. 54	Pike	Audrain		x	x			B			
W. Fk. Drywood Cr.	C	5.5	Mouth	State Line	Vernon			x	x			B			
W. Fk. East Cr.	C	5.0	Mouth	26,46N,33W	Cass			x	x			B			
W. Fk. Finney Cr.	C	4.5	17,49N,21W	6,49N,21W	Saline			x	x			B			
Trib. to W. Fk. Finney Cr.	C	0.5	Mouth	7,49N,21W	Saline			x	x			B			
W. Fk. Fourche Cr.	P	9.0	Mouth	15,22N,1W	Ripley			x	x	x		B			
W. Fk. Fourche Cr.	C	2.0	15,22N,1W	Hwy. 142	Ripley			x	x	x		B			
W. Fk. Honey Cr.	C	12.5	29,63N,23W	34,65N,23W	Grundy	Mercer		x	x			B			
W. Fk. Huzzah Cr.	P	5.0	1,34N,3W	22,34N,3W	Dent			x	x			/x/A			
W. Fk. Huzzah Cr.	C	2.0	22,34N,3W	28,34N,3W	Dent			x	x			B			
W. Fk. Jones Cr.	P	0.5	Mouth	16,41N,03E	Jefferson			x	x			B			
W. Fk. Limestone Cr.	C	3.0	Mouth	10,30N,27W	Dade			x	x			B			
W. Fk. Locust Cr.	P	17.0	Mouth	Hwy. 6	Linn	Sullivan		x	x			B			
W. Fk. Locust Cr.	C	17.0	Hwy. 6	33,64N,21W	Sullivan			x	x			B			
W. Fk. Lost Cr.	C	10.0	Mouth	27,58N,31W	De/k/Kalb			x	x			B			
Trib. to W. Fk. Lost Cr.	C	2.0	Mouth	9,58N,31W	De/k/Kalb			x	x			B			
Trib. to W. Fk. Lost Cr.	C	3.0	Mouth	4,58N,31W	De/k/Kalb			x	x			B			
W. Fk. Lost Cr.	P	4.0	Mouth	25,28N,7E	Wayne			x	x			B			
W. Fk. Lost Cr.	C	4.0	25,28N,7E	16,28N,6E	Wayne			x	x			B			

[BTG]

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Trib. to W. Fk. Lost Cr.	C	0.5	Mouth	13,28N,6E	Wayne			x	x			B			
W. Fk. Medicine Cr.	P	40.0	9,61N,22W	State Line	Grundy	Mercer		x	x			B			
W. Fk. Niangua R.	P	7.0	33,32N,18W	33,31N,18W	Webster			x	x			B			
Trib. to W. Fk. Niangua R.	P	1.5	Mouth	19,31N,18W	Webster			x	x			B			
W. Fk. Postoak Cr.	C	13.0	Mouth	22,45N,27W	Johnson			x	x			B			
Trib. to W. Fk. Postoak Cr.	C	1.0	Mouth	36,45N,27W	Johnson			x	x			B			
W. Fk. Roark Cr.	C	3.0	15,23N,22W	7,23N,22W	Taney	Stone	x	x	x			B			
W. Fk. Roubidoux Cr.	P	3.0	4,31N,11W	17,31N,11W	Texas			x	x			B			
W. Fk. Roubidoux Cr.	C	2.0	17,31N,11W	30,31N,11W	Texas			x	x			B			
Trib. to W. Fk. Roubidoux Cr.	C	2.0	Mouth	32,31N,11W	Texas			x	x			B			
W. Fk. Sni-a-bar Cr.	P	6.0	Mouth	Lk Lotawana Dam	Jackson			x	x			B			
W. Fk. Spring R.	P	2.5	Mouth	31,22N,8W	Howell			x	x			B			
W. Fk. Spring R.	C	9.5	31,22N,8W	10,22N,9W	Howell			x	x			B			
W. Fk. Tebo Cr.	C	7.0	Mouth	Hwy. 52	Henry			x	x			B			
W. Fk. Wakenda Cr.	P	3.0	Mouth	6,52N,25W	Carroll			x	x			B			
W. Fk. Wakenda Cr.	C	6.0	6,52N,26W	20,53N,26W	Ray			x	x			B			
W. High Cr.	C	3.0	Mouth	10,66N,41W	Atchison		x	x	x			B			
W. Lick Cr.	C	3.0	Mouth	27,53N,8W	Monroe			x	x			B			
W. Muddy Cr.	P	6.5	Mouth	6,63N,24W	Grundy	Mercer		x	x			B			
W. Muddy Cr.	C	7.5	6,63N,24W	31,65N,24W	Mercer			x	x			B			
Trib. to W. Muddy Cr.	P	0.5	Mouth	31,64N,24W	Mercer			x	x			B			
W. Piney Cr.	P	11.0	Mouth	33,30N,11W	Texas			x	x			B			
W. Piney Cr.	C	2.0	33,30N,11W	5,29N,11W	Texas			x	x			B			
W. Tarkio Cr.	P	1.0	Mouth	14,65N,40W	Atchison		x	x	x			B		x	
W. Tarkio Cr.	C	10.0	14,65N,40W	State Line	Atchison		x	x	x			B			
W. Yellow Cr.	C	14.0	14,61N,19W	14,63N,19W	Sullivan			x	x			B		x	
Wachita Cr.	C	0.5	Mouth	28,34N,5E	Madison			x	x			B			
Wades Cr.	C	8.0	Mouth	33,44N,25W	Henry			x	x			B			
Wakenda Cr.	P	28.0	Mouth	4,52N,25W	Carroll			x	x			B			
Wakenda Cr.	C	11.0	4,52N,25W	33,54N,26W	Carroll			x	x			B			
Old Chan. Wakenda Cr.	P	3.0	6,52N,23W	1,52N,24W	Carroll			x	x			B			
Wallace Cr.	P	3.0	Mouth	05,40N,06W	Gasconade			x	x			B			
Wallace Cr.	C	1.9	05,40N,06W	07,40N,06W	Gasconade			x	x			B			
Trib. to Wallace Cr.	P	1.8	Mouth	07,40N,06W	Gasconade			x	x			B			
Wallen Cr.	P	2.5	Mouth	9,36N,3E	Washington			x	x			B			
Wallen Cr.	C	2.0	9,36N,3E	6,36N,3E	Washington			x	x			B			
Wallen Cr.	C	1.5	Mouth	27,36N,3E	Washington			x	x			B			
Trib. to Wallen Cr.	P	1.0	Mouth	4,36N,3E	Washington			x	x			B			
Trib. to Wallen Cr.	C	2.0	4,36N,3E	32,37N,3E	Washington			x	x			B			
Walnut Cr.	C	14.0	Mouth	2,61N,17W	Macon	Adair		x	x			B			
Walnut Cr.	C	2.5	Mouth	20,55N,14W	Randolph			x	x			B			
Walnut Cr.	C	2.5	Mouth	12,45N,23W	Pettis			x	x			B			
Walnut Cr.	P	1.1	Mouth	25,45N,21W	Pettis			x	x			B			
Walnut Cr.	C	3.4	25,45N,21W	2,44N,21W	Pettis			x	x			B			
Walnut Cr.	C	1.6	Mouth	03,34N,30W	Vernon			x	x			B			
Walnut Cr.	C	2.0	Mouth	27,47N,26W	Johnson			x	x			B			
Walnut Cr.	C	11.0	Mouth	14,46N,24W	Johnson			x	x			B			
Walnut Cr.	C	9.0	Mouth	28,39N,33W	Bates			x	x			B			
Walnut Cr.	P	3.5	Mouth	17,36N,28W	St. Clair	Cedar		x	x			B			
Walnut Fk.	C	4.0	Mouth	22,62N,32W	Gentry			x	x			B			
Wamsley Cr.	C	1.5	Mouth	27,58N,30W	De/k/Kalb			x	x			B			
Ward Br.	P	3.3	Mouth	13,28N,22W	Greene			x	x			B			
Wardens Br.	C	1.0	Mouth	18,46N,5W	Montgomery			x	x			B			
Warm Fk. Spring R.	P	12.0	State Line	25,23N,06W	Oregon		x	x	x			/x/A	x		
Warm Fk. Spring R.	C	10.0	25,23N,06W	8,23N,6W	Oregon			x	x			B			
Warren Br.	P	1.5	State Line	36,26N,34W	Newton			x	x			B			
Warren Br.	C	1.5	36,26N,34W	Hwy. 43	Newton			x	x			B			
Wash Cr.	P	1.0	Mouth	27,32N,8E	Madison			x	x			B			
Wash Cr.	C	0.5	27,32N,8E	27,32N,8E	Madison			x	x			B			

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[BTG-Boating and Canoeing]
DWS-Drinking Water Supply
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[BTG]
IRR LWW AQL CLF CDF WBC SCR DWS IND

TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Watery Fk.	P	5.0	Mouth	12,34N,4W	Dent			x	x			B			
Trib. to Watery Fk.	C	1.0	Mouth	5,34N,4W	Dent			x	x			B			
Watkins Cr.	C	3.5	Mouth	Hwy. 270	St. Louis City	St. Louis		x	x			B			
Watson Br.	C	1.0	Mouth	20,39N,1E	Washington			x	x			B			
Weaubleau Cr.	P	/33.0/29.4	Mouth	03,35N,23W	St. Clair	Hickory		x	x			/x/A		x	
Trib. to Weaubleau Cr.	C	0.5	Mouth	3,35N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	1.3	Mouth	02,35N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	1.1	Mouth	26,36N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	1.5	Mouth	23,36N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	0.8	Mouth	15,36N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	0.5	Mouth	19,36N,23W	Hickory			x	x			B			
Web Cr.	P	5.5	Mouth	5,28N,2E	Reynolds			x	x			B			
Web Valley	P	3.0	Mouth	11,28N,2E	Reynolds			x	x			B			
Weidensaul Hollow	C	3.0	Mouth	27,23N,13W	Ozark			x	x			B			
Trib. to Weidensaul Holl.	C	1.0	Mouth	35,23N,13W	Ozark			x	x			B			
Weldon Br.	C	4.0	Mouth	8,63N,30W	Gentry			x	x			B			
Weldon R.	P	42.0	Mouth	State Line	Grundy	Mercer		x	x			B			
Old Chan. Weldon R.	C	4.0	Mouth	20,62N,24W	Grundy			x	x			B			
Wellson Slough	P	5.9	Mouth	Hwy. 45	Platte			x	x			B			
West Br.	P	1.0	21,33N,33W	29,33N,33W	Barton			x	x			B			
West Ditch	P	10.5	31,18N,10E	8,19N,10E	Dunklin			x	x			B			
West Fk.	P	1.0	Mouth	7,34N,23W	Polk			x	x			B			
West Fk.	C	3.0	Mouth	14,38N,5E	St. Francois	Jefferson		x	x			B			
West Fk.	C	5.0	Mouth	8,31N,31W	Barton			x	x			B			
West Prong	C	2.0	6,25N,7E	36,26N,6E	Butler			x	x			B			
Wet Fk.	C	1.0	Mouth	5,28N,5E	Wayne			x	x			B			
Wet Fk.	P	2.0	Mouth	32,27N,6E	Wayne			x	x			B			
Wet Glaize Cr.	P	10.0	24,38N,15W	20,37N,14W	Camden			x	x			/x/A		x	
Wheeler Cr.	C	2.0	Mouth	31,58N,30W	De/k/Kalb			x	x			B			
Whetstone Cr.	P	13.0	Mouth	21,29N,13W	Wright			x	x		x	B			
Whetstone Cr.	C	3.5	21,29N,13W	6,28N,12W	Wright			x	x			B			
Whetstone Cr.	P	1.5	Mouth	7,48N,6W	Montgomery			x	x			B			
Whetstone Cr.	C	8.0	7,48N,6W	1,48N,8W	Callaway			x	x			B			
Whippoorwill Cr.	C	2.0	Mouth	16,47N,5W	Montgomery			x	x			B			
Whitcomb Br.	C	2.5	Mouth	36,49N,1W	Lincoln			x	x			B			
White Br.	C	3.0	Mouth	32,36N,31W	Vernon			x	x			B			
White Cloud Cr.	P	11.0	Mouth	24,63N,36W	Andrew	Nodaway		x	x			B			
White Cloud Cr.	C	9.0	24,63N,36N	11,64N,36W	Nodaway			x	x			B			
White Cr.	P	2.5	Mouth	9,24N,2W	Oregon			x	x			B			
White Cr.	C	2.0	9,24N,2W	4,24N,2W	Oregon			x	x			B			
White Oak Cr.	C	2.0	Mouth	33,50N,5W	Montgomery			x	x			B			
White Oak Cr.	C	9.0	Mouth	Hwy. 136	Harrison			x	x			B			
White Oak Cr.	C	3.0	Mouth	30,42N,12W	Cole			x	x			B			
Trib. to White Oak Cr.	C	0.5	Mouth	25,42N,13W	Cole			x	x			B			
White Oak Cr.	C	3.0	Mouth	28,42N,28W	Henry			x	x			B			
White Oak Cr.	C	15.0	Mouth	Hwy. 97	Jasper	Lawrence	x	x	x			/x/A			
Trib. to White Oak Cr.	C	5.0	Mouth	Hwy. 97	Lawrence			x	x			B			
White Oak Hollow	C	2.0	Mouth	28,32N,5W	Dent			x	x			B			
Whitener Cr.	P	0.5	Mouth	28,32N,8E	Madison			x	x			B			
Whitener Cr.	C	1.0	28,32N,8E	22,32N,8E	Madison			x	x			B			
Whites Cr.	P	2.0	Mouth	26,39N,2W	Crawford			x	x			B			
Whites Cr.	C	1.0	26,39N,2W	35,39N,2W	Crawford			x	x			B			
Whites Cr.	C	3.0	Mouth	33,26N,15W	Douglas			x	x			B			
Whitewater R.	P	35.0	Mouth	29, 33/W/N,11E	Cape Girardeau			x	x			/x/A			
Whitewater R.	P	14.0	30,33N,11E	29,34N,9E	Bollinger	Perry		x	x		x	/x/A		x	
Whitewater R.	C	6.5	29,34N,9E	10,34N,9E	Perry	St. Francois		x	x			B			
Whitewater R.	P	7.0	31,28N,12E	6,28N,12E	Scott		x	x	x			B			
Whitewater R.	C	4.0	6,28N,12E	18,29N,12E	Scott	Cape Girardeau		x	x			B			
Trib. to Whitewater R.	C	1.5	Mouth	3,30N,11E	Cape Girardeau			x	x			B			
Whittenburg Cr.	P	2.5	Mouth	Hwy. 8	Crawford			x	x		x	B			
Whittenburg Cr.	C	5.0	Hwy. 8	Hwy. 19	Crawford			x	x			B			
Trib. to Whittenburg Cr.	C	1.0	Mouth	12,37N,4W	Crawford			x	x			B			

[BTG]

IRR LWW AQL CLF CDF WBC SCR DWS IND

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Wiemer Cr.	P	2.0	11,40N,12W	23,40N,12W	Miller			x	x			B			
Wiemer Cr.	C	4.0	23,40N,12W	Hwy. 42	Miller			x	x			B			
Wildcat Cr.	C	3.0	Mouth	3,62N,39W	Holt			x	x			B			
Wildcat Cr.	P	6.0	Mouth	6,62N,32W	Gentry			x	x			B			
Wildcat Cr.	C	7.0	6,62N,32W	8,63N,33W	Gentry	Nodaway		x	x			B			
Trib. to Wildcat Cr.	C	2.0	Mouth	30,63N,32W	Gentry			x	x			B			
Trib. to Wildcat Cr.	C	2.0	Mouth	32,63N,33W	Nodaway			x	x			B			
Wildhorse Cr.	C	2.0	Mouth	29,45N,3E	St. Louis			x	x			B			
Wilkerson Cr.	C	6.9	Mouth	07,52N,32W	Clay			x	x			B			
Wilkerson Ditch	C	4.0	16,23N,16E	28,24N,16E	Mississippi			x	x			B			
Williams Cr.	C	6.0	Mouth	21,53N,30W	Clay			x	x			B			
[Williams Cr.	P	5.0	Mouth	11,42N,21W	Benton			x	x	x/					
Williams Cr.	P	8.0	Mouth	Hwy. 55	Cape Girardeau			x	x			B			
Williams Cr.	C	2.0	Hwy. 55	Sur 800,32N,13E	Cape Girardeau			x	x			B			
Williams Cr.	C	4.5	Mouth	18,27N,5E	Wayne			x	x			B			
Williams Cr.	P	1.0	Mouth	28,28N,27W	Lawrence			x	x		x	[x]/A			
Williams Cr.	P	7.0	28,28N,27W	34,28N,26W	Lawrence			x	x			[x]/A			
Williams Cr.	C	1.5	34,28N,26W	35,28N,26W	Lawrence			x	x			B			
Williams Cr.	P	1.0	Mouth	I-44	St. Louis			x	x			B			
Williams Cr.	P	5.0	Mouth	11,42N,21W	Benton			x	x	x		B			
Williams Cr.	C	3.4	11,42N,21W	05,42N,20W	Benton			x	x			B			
Trib. to Williams Cr.	P	1.0	Mouth	Sur 256,30N,13E	Cape Girardeau			x	x			B			
Willow Br.	P	1.5	Mouth	2,25N,33W	Newton			x	x			B			
Willow Br.	C	1.9	Mouth	05,37N,31W	Vernon			x	x			B			
Willow Cr.	C	6.5	Mouth	16,51N,27W	Ray			x	x			B			
Willow Cr.	C	1.0	Mouth	35,61N,32W	Gentry			x	x			B			
Willow Cr.	C	1.5	Mouth	35,55N,26W	Caldwell			x	x			B			
Willow Cr.	C	2.0	Mouth	18,23N,10W	Ozark	Howell		x	x			B			
Willow Fk.	P	3.0	4,44N,16W	36,45N,17W	Moniteau			x	x			[x]/A			
Willow Fk.	C	6.5	36,45N,17W	29,45N,17W	Moniteau			x	x			B			
Trib. to Willow Fk.	C	0.5	Mouth	27,45N,17W	Moniteau			x	x			B			
Wilmore Cr.	C	1.0	Mouth	7,30N,6E	Wayne			x	x			[x]/A			
Wilson Br.	C	1.2	Mouth	12,35N,30W	Vernon			x	x			B			
Wilson Cr.	P	18.0	Mouth	16,29N,22W	Christian	Greene		x	x			B			
Wilson Cr.	C	1.3	16,29N,22W	10,29N,22W	Greene			x	x			B			
[Wilson Cr.	C	1.2	Mouth	12,35N,30W	Vernon			x	x			x/			
Wilson Run	C	2.5	Mouth	17,24N,23W	Stone			x	x			B			
Winn's Cr.	C	5.0	15,56N,13W	21,57N,13W	Macon			x	x			B			
Winnegan Cr.	C	7.0	Mouth	5,59N,18W	Linn			x	x			B			
Wolf Cr.	C	4.0	Mouth	7,49N,4W	Montgomery			x	x			B			
Wolf Cr.	C	1.5	Mouth	32,48N,15W	Cooper			x	x			B			
Wolf Cr.	C	9.0	Mouth	16,28N,15W	Wright			x	x			B			
Wolf Cr.	C	4.5	Mouth	35,33N,10E	Cape Girardeau	Bollinger		x	x			B			
Wolf Cr.	C	2.0	Mouth	35,25N,5E	Butler			x	x			B			
Wolf Cr.	C	8.0	Mouth	29,36N,6E	St. Francois			x	x			B			
Wolf Cr.	C	4.0	Mouth	3,27N,10E	Stoddard			x	x			B			
Wolf Cr.	C	3.0	Mouth	14,45N,1W	Warren			x	x			B			
Wolf Cr.	C	5.2	Mouth	10,27N,08W	Texas	Howell		x	x			B			
Trib. to Wolf Cr.	P	1.1	Mouth	Hwy. 32	St. Francois			x	x			B			
Trib. to Wolf Cr.	C	1.5	Hwy. 32	Hwy. D	St. Francois			x	x			B			
Trib. to Trib. to Wolf Cr.	C	0.8	Mouth	Hwy. 32	St. Francois			x	x			B			
Wolf Hole Lateral	C	8.0	Mouth	29,26N,16E	Mississippi			x	x			B			
Wolf Island Chute	P	11.5	5,24N,18E	11,23N,17E	Mississippi			x	x			B			
Woods Fk.	C	5.5	Mouth	3,25N,21W	Christian			x	x			B			
Woods Fk.															
Gasconade R.	P	11.0	6,29N,14W	2,29N,16W	Wright			x	x			B			
Woods Fk.															
Gasconade R.	C	4.0	2,29N,16W	6,29N,16W	Wright	Webster		x	x			B			
Tr. to Woods Fk.															
Gasconade	C	2.5	2,29N,16W	15,29N,16W	Wright			x	x			B			

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	[BTG]			
												WBC	SCR	DWS	IND
Woolly Cr.	C	1.5	Mouth	7,23N,24W	Stone			x	x			B			
Woolsey Cr.	C	4.0	Mouth	5,36N,17W	Camden	Laclede		x	x			B			
Workman Br.	C	1.0	/22,28N, 22W/Mouth		Greene			x	x			B			
Workman Cr.	P	1.5	Mouth	Hwy. 179	Cole			x	x			B			
Trib. to Workman Cr.	P	0.5	Mouth	13,45N,13W	Cole			x	x			B			
Wright Br.	P	2.0	Mouth	6,29N,25W	Lawrence			x	x			B			
Wyaconda R.	P1	8.0	Mouth	15,61N,6W	Lewis			x	x			B	x		x
Wyaconda R.	P	32.0	15,61N,6W	26,65N,9W	Lewis	Clark		x	x			B	x		
Wyrick Br.	C	1.3	Mouth	10,28N,09W	Texas			x	x			B			
Yadkin Cr.	C	3.0	Mouth	9,37N,4W	Crawford			x	x		x	B			
Trib. to Yadkin Cr.	C	3.5	Mouth	7,37N,4W	Crawford			x	x			B			
Yankee Br.	P	1.0	Mouth	10,36N,4W	Crawford			x	x		x	B			
Yankee Br.	C	1.0	10,36N,4W	15,36N,4W	Crawford			x	x			B			
Yantz Cr.	C	1.0	Mouth	1,32N,9E	Bollinger			x	x			B			
Yeater Br.	C	2.0	Mouth	30,48N,2W	Warren			x	x			B			
Yellow Cr.	P	25.0	Mouth	20,56N,19W	Chariton			x	x			B			
Yellow Cr.	C	2.0	Mouth	29,38N,26W	St. Clair			x	x			B			
Trib. to Yellow Cr.	C	1.0	Mouth	32,38N,26W	St. Clair			x	x			B			
Yoga Spring	P	0.1	Mouth	29,30N,07W	Texas			x	x			B			
Youngs Cr.	C	9.5	Mouth	11,52N,10W	Monroe	Audrain		x	x			B			
Youngs Cr.	C	1.5	Mouth	3,46N,9W	Callaway			x	x			B			
Zadie Cr.	C	4.0	Mouth	State Line	Harrison			x	x			B			
Zounds Br.	C	3.0	Mouth	35,64N,33W	Gentry			x	x			B			

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IRR LWW AQL CLF CDF WBC SCR DWS IND
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[Table I
Biocriteria Reference Locations

STREAMS	COUNTIES	LOCATIONS
White Cloud Creek	Nodaway	Sec 18 & 19, T62N, R35W
Honey Creek	Nodaway	Sec 13 & 24, T65N, R34W
East Fork Grand River	Worth	N1/2, Sec 32, T66N, R30W
Grindstone Creek	DeKalb	NW1/4, Sec 2, T58N, R30W
Long Branch Platte River	Nodaway	E1/2, Sec 19, T62N, R34W
West Fork Big Creek	Harrison	SW1/4, Sec 22, T64N, R28W
Marrowbone Creek	Davies	Sec. Line 5 & 8, T58N, R27W
No Creek	Livingston	T59N, R24W & 23W
West Locust Creek	Sullivan	S1/2, Sec 14, T61N, R21W
Spring Creek	Adair	NE, S30, T63N, R16W
East Fork Crooked River	Ray	E1/2, Sec 27, T53N, R27W
Petite Saline Creek	Cooper	NE1/4, Sec 13, T48N, R16W
Burris Fork	Moniteau	NW1/4, Sec 5, T43N, R15W
Little Dry Wood Creek	Vernon	NE, S30, T35N, R31W
Cedar Creek	Cedar	N1/2, Sec 9, T34N, R27W
Pomme de Terre River	Polk	Sec Line 21 & 22, T32N, R21W
Deer Creek	Benton	NE1/4, Sec 31, T40N, R20W
Little Niangua River	Hickory	NW1/4, Sec 2, T37N, R20W
Little Maries River	Maries	W1/2, Sec 34, T41N, R10W
Big Sugar Creek	McDonald	N1/2, Sec 21, T22N, R30W
Bull Creek	Taney	E1/2, Sec 36, T25N, R21W
Spring Creek	Douglas	SW1/4, Sec 23, T25N, R11W
North Fork River	Douglas	Sec 30, T26N, R11W
Jacks Fork River	Shannon	Sec Line 31 & 32, T28N, R6W
Sinking Creek	Shannon	Sec 28, T31N, R4W
Big Creek	Shannon	NW1/4, Sec 7, T30N, R3W
Little Black River	Ripley	N1/2, Sec 25, T24N, R3E
West Piney Creek	Texas	NW1/4, Sec 20, T30N, R10W
Little Piney Creek	Phelps	SW1/4, Sec 32, T36N, R8W
Meramac River	Crawford	SW1/4, Sec 35, T36N, R5W
Huzzah Creek	Crawford	S1/2, Sec 20, T36N, R2W
Marble Creek	Madison	S1/2, Sec 18, T32N, R5E
East Fork Black River	Reynolds	W1/2, Sec 16, T33N, R2E
Sinking Creek	Reynolds	NE1/4, Sec 20, T30N, R2E
Boeuf Creek	Franklin	W1/2, Sec 30, T44N, R3W
River Aux Vases	Ste. Genevieve	SE1/4, Sec 27, T37N, R8E
Saline Creek	Ste. Genevieve	W1/2, Sec 28, T36N, R9E
Apple Creek	Cape Girardeau/Perry	NW1/4, Sec 4, T33N, R11E
Little Whitewater River	Bollinger	N1/2, Sec 1, T32N, R9E
Middle Fabius River	Lewis	NE1/4, Sec 5, T61N, R8W
North River	Marion	E1/2, Sec 32, T58N, R7W
Loutre River	Montgomery	N1/2, Sec 28, T48N, R6W
Huffstetter Lateral Ditch	Stoddard	Sec Corner 17, 18, 19, 20, T24N, R11E
Ash Slough Ditch	New Madrid	TS. Line 24N & 25N, R13E
Maple Slough Ditch	Mississippi	TS. Line 24N & 25N, R15E

Table I
Biocriteria Reference Location

STREAMS	COUNTIES	UPSTREAM LOCATION				DOWNSTREAM LOCATION			
Apple Creek	Cape Girardeau/Perry	W 1/2	Sec. 29	T34N	R11E	NW	Sec. 3	T33N	R11E
Big Creek	Shannon	E 1/2	Sec. 12	T30N	R04W	N 1/2	Sec. 36	T30N	R04W
Big Sugar Creek	McDonald	SE	Sec. 1	T21N	R30W	NE	Sec. 21	T22N	R30W
Blair Creek	Shannon	SE	Sec. 25	T30N	R03W	NW	Sec. 18	T29N	R02W
Boeuf Creek	Franklin	SW	Sec. 36	T44N	R04W	NW	Sec. 30	T44N	R03W
Bryant Creek	Douglas	NW	Sec. 10	T25N	R14W	E 1/2	Sec. 15	T25N	R14W
Bull Creek	Christian/Taney	SE	Sec. 25	T25N	R21W	NE	Sec. 3	T24N	R21W
Burriss Fork	Moniteau	NW	Sec. 6	T43N	R15W	NW	Sec. 28	T44N	R15W
Castor River	Madison	NW	Sec. 10	T33N	R08E	S 1/2	Sec. 16	T33N	R08E
Cedar Creek	Cedar	E 1/2	Sec. 29	T34N	R27W	N 1/2	Sec. 09	T34N	R27W
Center Creek	Lawrence	SE	Sec. 18	T27N	R28W	NE	Sec. 24	T27N	R29W
Deer Creek	Benton	SE	Sec. 31	T40N	R20W	NE	Sec. 30	T40N	R20W
East Fork Black River	Reynolds	NE	Sec. 08	T33N	R02E	SW	Sec. 16	T33N	R02E
East Fork Crooked River	Ray	NE	Sec. 02	T52N	R27W	SE	Sec. 14	T52N	R27W
East Fork Grand River	Worth	N 1/2	Sec. 32	T66N	R30W	NW	Sec. 13	T65N	R31W
Grindstone Creek	DeKalb	SW	Sec. 10	T58N	R30W	NW	Sec. 02	T58N	R30W
Heaths Creek	Pettis/Saline	SW	Sec. 20	T48N	R20W	N 1/2	Sec. 23	T48N	R20W
Honey Creek	Nodaway	SW	Sec. 25	T65N	R34W	SW	Sec. 25	T65N	R34W
Horse Creek	Cedar	SW	Sec. 09	T34N	R28W	N 1/2	Sec. 02	T34N	R28W
Huzzah Creek	Crawford	SE	Sec. 29	T36N	R02W	NE	Sec. 18	T36N	R02W
Jacks Fork River	Texas/Shannon	SE	Sec. 35	T28N	R07W	NW	Sec. 04	T27N	R06W
Jones Creek	Jasper	N 1/2	Sec. 24	T27N	R31W	NW	Sec. 12	T27N	R31W
Little Black River	Ripley	E 1/2	Sec. 09	T24N	R03E	SE	Sec. 23	T24N	R03E
Little Drywood Creek	Vernon	NW	Sec. 06	T33N	R31W	SE	Sec. 30	T35N	R31W
Little Fox River	Clark	SE	Sec. 14	T66N	R09W	SE	Sec. 24	T66N	R09W
Little Maries River	Maries	SW	Sec. 34	T41N	R10W	W 1/2	Sec. 26	T41N	R10W
Little Niangua River	Hickory	NE	Sec. 26	T37N	R20W	S 1/2	Sec. 35	T38N	R20W
Little Piney Creek	Phelps	NE	Sec. 05	T35N	R08W	NE	Sec. 31	T36N	R08W
Little Whitewater River	Cape Girardeau	NW	Sec. 01	T32N	R09E	NE	Sec. 16	T32N	R10E
Locust Creek	Putnam	S 1/2	Sec. 10	T66N	R20W	NE	Sec. 34	T66N	R20W
Long Branch Platte River	Nodaway	SE	Sec. 30	T63N	R34W	NE	Sec. 29	T62N	R34W
Loutre River	Montgomery	E 1/2	Sec. 17	T48N	R06W	SE	Sec. 10	T47N	R06W
Main Ditch	Dunklin	S 1/2	Sec. 20	T20N	R10E	NE	Sec. 08	T19N	R10E
Maple Slough Ditch	Mississippi	NW	Sec. 34	T25N	R15E	Sec 3 & 4 Line	T24N	R15E	
Marble Creek	Madison	E 1/2	Sec. 24	T32N	R04E	E 1/2	Sec. 21	T32N	R05E
Marrowbone Creek	Daviess	SW	Sec. 18	T58N	R27W	NE	Sec. 08	T58N	R27W
Meramec River	Dent	SE	Sec. 13	T35N	R05W	SW	Sec. 11	T35N	R05W
Middle Fabius River	Lewis	NE	Sec. 15	T62N	R09W	E 1/2	Sec. 04	T61N	R08W
Mikes Creek	McDonald	E 1/2	Sec. 15	T22N	R30W	SE	Sec. 16	T22N	R30W
Mill Creek	Phelps	NE	Sec. 08	T36N	R09W	NW	Sec. 28	T37N	R09W
Moniteau Creek	Cooper	SW	Sec. 20	T46N	R16W	E 1/2	Sec. 23	T46N	R16W
No Creek	Livingston/Grundy	S 1/2	Sec. 31	T60N	R23W	SE	Sec. 01	T59N	R24W
North Fork River	Douglas	SE	Sec. 12	T26N	R12W	SW	Sec. 19	T26N	R11W
North River	Marion	SE	Sec. 24	T58N	R08W	SE	Sec. 32	T58N	R07W
Petite Saline Creek	Cooper	W 1/2	Sec. 15	T48N	R16W	SE	Sec. 12	T48N	R16W
Pomme De Terre River	Polk	NE	Sec. 16	T31N	R20W	SW	Sec. 01	T31N	R21W
Richland Creek	Morgan	NW	Sec. 04	T43N	R18W	SE	Sec. 28	T44N	R18W
River Aux Vases	Ste. Genevieve	E 1/2	Sec. 33	T37N	R08E	SW	Sec. 26	T37N	R08E
Saline Creek	Miller	NW	Sec. 23	T41N	R14W	NW	Sec. 25	T41N	R14W
Saline Creek	Ste. Genevieve	NE	Sec. 35	T36N	R08E	SW	Sec. 32	T36N	R09E
Sinking Creek	Reynolds	SE	Sec. 32	T31N	R04W	NE	Sec. 35	T30N	R02E
Sinking Creek	Shannon	SE	Sec. 17	T30N	R02E	SE	Sec. 08	T30N	R04W
South Fabius River	Marion	S	Sec. 18	T59N	R08W	SE	Sec. 26	T59N	R08W
South River	Marion	NW	Sec. 06	T57N	R05W	SW	Sec. 21	T58N	R05W
Spring Creek	Adair	N 1/2	Sec. 14	T63N	R17W	NE	Sec. 30	T63N	R16W
Spring Creek	Douglas	NW	Sec. 26	T25N	R11W	NW	Sec. 34	T25N	R11W

Table I
Biocriteria Reference Location

STREAMS	COUNTIES	UPSTREAM LOCATION				DOWNSTREAM LOCATION			
Spring Creek	Douglas	NW	Sec. 26	T25N	R11W	NW	Sec. 34	T25N	R11W
Tavern Creek	Miller	NW	Sec. 07	T38N	R12W	NW	Sec. 33	T39N	R12W
Turnback Creek	Lawrence		Sec. 29	T29N	R25W	SE	Sec. 12	T29N	R26W
West Fork Big Creek	Harrison	NE	Sec. 15	T65N	R28W	SW	Sec. 22	T65N	R28W
West Locust Creek	Sullivan	SW	Sec. 03	T62N	R21W	N 1/2	Sec. 23	T62N	R21W
West Piney Creek	Texas	NW	Sec. 20	T30N	R10W	SW	Sec. 10	T30N	R10W
White Cloud Creek	Nodaway	NW	Sec. 06	T62N	R35W	SE	Sec. 18	T62N	R35W

AUTHORITY: sections 644.021, **RSMo Supp. 2004** and 644.026, **RSMo [Supp. 1995] 2000**. Original rule filed May 13, 1977, effective Dec. 11, 1977. For intervening history, please consult the **Code of State Regulations**. Amended: Filed March 31, 2005.

PUBLIC COST: This proposed amendment will cost state agencies or political subdivision \$230,386,350 initially and \$42,006,500 annually in the aggregate.

PRIVATE COST: This proposed amendment will cost private entities \$20,392,000 initially and \$12,343,000 annually in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support or or in opposition to this proposed amendment with the Department of Natural Resources, Water Protection and Soil Conservation Division, Water Protection Program, Marlene Kirchner, Missouri Clean Water Commission Secretary, PO Box 176, Jefferson City, MO 65102, Phone (573) 751-1300. To be considered, comments must be post-marked by 5:00 p.m. July 14, 2005. A public hearing is scheduled for 9:00 a.m. July 6, 2005, in the Best Western Moberly Inn, 1200 Highway 24 East, Moberly, Missouri. Opportunity to be heard at the hearing shall be afforded any interested person. The public hearing is scheduled during the regular Missouri Clean Water Commission meeting and will occur after previous meeting minutes are discussed, shortly after 9:00 a.m.

**FISCAL NOTE
PUBLIC COST**

I. RULE NUMBER

<i>Rule Number and Name:</i>	10 CSR 20-7.031 Water Quality Standards
<i>Type of Rulemaking:</i>	Proposed Amendment

The revisions to 10 CSR 20-7.031 Water Quality Standards will:

1. Adopt eight new definitions (whole body contact recreation category A, whole body contact recreation category B, early life stages, 30-day Q10, 1-day Q10, reference lakes or reservoirs, water effect ratio, waters of the state) and revise three existing definitions (whole body contact recreation, boating and canoeing/secondary contact recreation, low-flow conditions);
2. Change the title of Division of Geology and Land Survey (DGLS) to the Geological Survey and Resource Assessment Division (GSRAD);
3. Add language for the development and use of antidegradation implementation procedures;
4. Delete existing site-specific criteria language pertaining to dissolved oxygen, Tables A & B, and sulfate plus chloride and add language establishing a method usable for all site-specific criteria for the protection of aquatic life;
5. Remove the allowance for mixing zones in streams with a seven (7)-day Q₁₀ of less than 0.1 cfs;
6. Add language detailing a method for establishing specific criteria for wetlands;
7. Change the analysis method for drinking water supply metals from dissolved to total recoverable;
8. Replace current hardness dependent metals criteria for aquatic life protection with recalculated, equation-based criteria;
9. Adopt *E. coli* as indicator bacteria and EPA's 1986 criteria;
10. Require discharges into Outstanding National and State Resource Waters or into their watershed be subject to special effluent limitations;
11. Move the bacterial high flow exemption to 10 CSR 20-7.015(9)(I) Effluent Regulations;
12. Change several criteria in Table A—Criteria for Designated Uses to EPA's recommended criteria;
13. Adopt new total ammonia nitrogen criteria developed in December 1999 by EPA;
14. Revise or add six waters designated for cold water fisheries (Table C);
15. Add Bull Creek, located within the Mark Twain National Forest in Christian County, as an Outstanding State Resource Water;
16. Revise Table G—Lake Classification and Use Designation and Table H—Stream Classification and Use Designations to rectify discrepancies stated by EPA;
17. Designate all waters listed in Tables G and H for whole body contact recreation;
18. Revise Table I—Biocriteria Reference Locations due to refinement of selection processes; and
19. Correct miscellaneous typographical errors.

II. SUMMARY OF FISCAL IMPACT

<i>Affected Agency or Political Subdivision</i>	<i>Estimated Cost of Compliance in the Aggregate</i>
Public facilities that do not presently disinfect wastewater and have a design flow of less than 0.05 MGD* (155 facilities total)	Estimated installation cost = \$3,544,000 Estimated operating and maintenance cost per year = \$3,225,000 Estimated analytical testing cost per year = \$56,000
Public facilities that do not presently disinfect wastewater and have a design flow of greater than 0.05 MGD but less than or equal to 1.0 MGD (202 facilities)	Estimated installation cost = \$12,040,000 Estimated operating and maintenance cost per year = \$23,636,000 Estimated analytical testing costs per year = \$108,000
Public facilities that do not presently disinfect wastewater and have a design flow of greater than 1.0 MGD but less than or equal to 20.0 MGD (38 facilities)	Estimated installation cost = \$52,243,000 Estimated operating and maintenance cost per year = \$3,644,000 Estimated analytical testing cost per year = \$88,000
Public facilities that do not presently disinfect wastewater and have a design flow of greater than 20.0 MGD (7 facilities)	Estimated installation cost = \$162,541,000 Estimated operating and maintenance cost per year = \$10,968,000 Estimated analytical testing cost per year = \$46,000
Missouri Department of Natural Resources (or other entities associated with use attainability analyses for whole body contact)	Estimated initial cost = \$18,350 Estimated annual cost = \$235,500

*MGD = million gallons per day

The Code of Federal Regulations at 40 CFR 131.20 requires a state to review its water quality standards at least once every three (3) years (Triennial Review). Missouri's Water Quality Standards (WQS) were last revised in 1994 and 1996. On September 8, 2000, the United States Environmental Protection Agency (EPA) officially disapproved some revisions made to the WQS in 1994 and 1996, saying that certain portions were inconsistent with the Federal Clean Water Act (CWA or Act).

The department responded by providing a three-phase schedule that outlines the order that it will address changes demanded by EPA as well as other issues. This proposed amendment is the first phase of this process and is an effort to resolve many of the disapprovals and inconsistencies so that the state's rules are functional equivalent to the CWA and federal rules. To achieve this equivalence, the state must either adopt federal rule or guidance, or develop alternate rules that are based on an equal level of structured scientific analysis applied to the development of the federal standards. Because the state does not have the resources to perform scientific research at that level, it has chosen to directly adopt federal standards as the new state standards. In doing so, it also adopts the science used by EPA experts in the development of the federal standards.

EPA may rectify these and other disapproved items by federal rulemaking if the state does not do so. In addition, the Missouri Coalition for the Environment has sued EPA to compel the state, through EPA, to promptly comply with many of the items explained in EPA's September 8, 2000, letter.

III. WORKSHEET

Definitions

No cost will be associated with this revision.

“Division of Geology and Land Survey” changes to “Geological Survey and Resource Assessment Division”

No cost will be associated with this revision.

Antidegradation implementation procedures

No cost will be associated with this revision.

Site-specific criteria for the Protection of Aquatic Life

No cost will be associated with this revision.

Mixing zones in streams with a seven (7)-day Q_{10} less than 0.1 cfs

An assessment of the cost cannot be calculated or reasonably estimated at this time.

Specific criteria methods for wetlands

No cost will be associated with this revision.

Analytical method for drinking water supply metals

An assessment of the cost cannot be calculated or reasonably estimated at this time.

Metals criteria for aquatic life protection

An assessment of the cost cannot be calculated or reasonably estimated at this time.

E. coli and 1986 criteria

No cost will be associated with this revision.

Discharges to Outstanding Resource Waters

No cost will be associated with this revision.

High flow exemption

No cost will be associated with this revision.

Table A—Criteria for Designated Uses

An assessment of the cost cannot be calculated or reasonably estimated at this time.

Table B—Total Ammonia Nitrogen

An assessment of the cost cannot be calculated or reasonably estimated at this time.

Table C—Cold Water Fisheries

No cost will be associated with this revision.

Table E—Outstanding State Resource Water

No cost will be associated with this revision.

Table G—Lake Classification and Use Designation and Table H—Stream Classification and Use Designations

Several minor corrections, such as legal descriptions, will be made to Tables G and H. No cost will be associated with this revision.

Disinfection cost

All waters listed in Tables G and H will be designated for whole body contact recreation. The tables below show the estimated cost for disinfection per publicly owned wastewater treatment plant (WWTP or facility) category for four size ranges and two types of disinfection system. Table 1 displays installation costs, Table 2 the operation and maintenance (O&M) costs, and Table 3 the number of publicly owned facilities in each category of flow and type of disinfection system. For example, the 41 facilities with a flow of less than 0.05 MGD that have been estimated to use ultraviolet (UV) disinfection will have a total installation cost of \$2,118,162.50 and total operating and maintenance cost of \$89,687.50 per year. Unit rate assumptions are in **Appendix D** of the WQS Regulatory Impact Report.

Table 1

Design Flow in million gallons per day (MGD)	Total Installation Cost		
	UV	Chlorination	Total
Design flow less than 0.05 MGD	\$2,118,162.50	\$1,425,000.00	\$3,543,162.50
Design flow of 0.05 to less than 1.0 MGD	\$9,222,097.50	\$2,817,500.00	\$12,039,597.50
Design flow of 1.0 to less than 20.0 MGD	\$38,880,000.00	\$13,362,364.50	\$52,242,367.50
Design flow greater than 20.0 MGD	\$162,540,008.75	---	\$162,540,008.75
Total	\$212,760,268.75	\$17,604,867.50	\$230,365,136.25

Table 2

Design Flow in million gallons per day (MGD)	Disinfection System		
	UV	Chlorination	Total
Design flow less than 0.05 MGD	\$89,687.50	\$3,135,000.00	\$3,224,687.50
Design flow of 0.05 to less than 1.0 MGD	\$390,285.00	\$23,244,725.00	\$23,635,010.00
Design flow of 1.0 to less than 20.0 MGD	\$2,623,520.00	\$1,020,150.00	\$3,643,670.00
Design flow greater than 20.0 MGD	\$10,967,792.50	---	\$10,967,792.50
Total	\$14,071,285.00	\$27,399,875.00	\$41,471,160.00

Table 3

Design Flow in million gallons per day (MGD)	Public WWTP Numbers		
	Disinfection System		
	UV	Chlorination	Total
Design flow less than 0.05 MGD	41	114	155
Design flow of 0.05 to less than 1.0 MGD	62	140	202
Design flow of 1.0 to less than 20.0 MGD	32	6	38
Design flow greater than 20.0 MGD	7	0	7
Total	143	260	402

Ultraviolet disinfection cost estimates were derived from data provided by an EPA document titled, *Ultraviolet Disinfection Technology Assessment*, 1990. All cost estimates have been adjusted to reflect the cost of equipment, installation, and operation and maintenance for the year 2004 using the Engineering News Record Construction Cost Index (CCI).

Chlorination disinfection cost estimates were derived from data provided by a National Small Flows Clearinghouse fact sheet titled, *Chlorine Disinfection*, 1995. Cost estimates from outside manufacturers of chlorinating tablet feeders were also used for the smaller wastewater treatment plants. All cost estimates have been adjusted to reflect the cost of equipment, installation, and operation and maintenance for 2004 using the Engineering News Record Construction Cost Index (CCI).

Analytical testing cost

Analytical testing costs were established by averaging the cost of fecal coliform and total residual chlorine testing from ten (10) laboratories in Missouri and neighboring states that provide services to facilities from Missouri. The monitoring frequency of each facility in Table 3 is currently established in their permits and was gathered from a MDNR database. Table 4 shows the cost due to the frequency of analytical testing of fecal coliform (FC) and total residual chlorine (TRC).

Table 4

Flow (Q) in MGD	Total Average Testing Cost per Year		
	Disinfection System		
	FC	TRC	Total
Flow less than 0.05 MGD	\$36,801.60	\$18,903.78	\$55,705.38
Flow between 0.05 & 1.0 MGD	\$78,988.80	\$29,005.80	\$107,994.60
Flow between 1.0 & 20.0 MGD	\$78,328.80	\$9,951.99	\$88,280.79
Flow greater than 20.0 MGD	\$46,041.60	\$0.00	\$46,041.60
Total	\$240,160.80	\$57,861.57	\$298,022.37

Recreational UAA procedure costs

Revisions to the Water Quality Standards (WQS) may potentially cost the state two hundred thirty-five thousand five hundred dollars (\$235,500) annually with an additional first year cost of eighteen thousand three hundred fifty dollars (\$18,350) for equipment necessary to conduct the surveys. These costs would be the result of conducting use attainability analysis

(UAAs) associated with the designation of all classified waters in Tables G and H in the WQS for whole body contact recreation (WBCR). It should be noted that the state is not obligated by regulation to conduct UAAs. The department or any entity, private or public, may follow the approved procedure for developing a UAA for recreational use. Tables 5 and 6 break down the potential cost to the department for conducting UAAs.

Table 5. Initial Costs due to Recreational UAAs

Resource	Unit(s)	Cost per Unit	Total Cost
Digital cameras	3	\$252	\$756
GPS units	3	\$5,212	\$15,636
GPS software	1	\$1,955	\$1,955
Total			\$18,347

Table 6. Annual Costs due to Recreational UAAs

Resource	Unit(s)	Cost per Unit	Total Cost
Full-time employee (FTE)	3	\$35,050.80	\$105,152.40
Interns/part-time employees	4	\$12,000.00	\$48,000.00
Vehicle mileage	45,000	\$0.33	\$14,850.00
Lodging (excludes taxes)	\$420	\$73.80	\$30,996.00
Food expense	\$630	\$39.80	\$25,074.00
Internal review committee members	3	\$3791.25	\$11,373.75
Total			\$235,446.15

Table I—Biocriteria Reference Locations

No cost will be associated with this revision.

Miscellaneous typographical errors

No cost will be associated with this revision.

IV. ASSUMPTIONS

Definitions

The addition of seven definitions (catastrophic storm event, early life stages, 30-day Q10, 1-day Q10, reference lakes or reservoirs, water effect ratio, and waters of the state) will better clarify the WQS. Language has been added to also clarify existing definitions (WBCR, boating & canoeing, and low-flow conditions). These clarifications should improve the accuracy of water quality reviews and consequently improve the choices for treatment and BMPs. The clarifications may also facilitate decision-making and reduce costs to the state and the regulated community through more timely feedback on permit applications.

“Division of Geology and Land Survey” changes to “Geological Survey and Resource Assessment Division”

In 2001, the Missouri Department of Natural Resources Division of Geology and Land Survey was officially renamed the Geological Survey and Resource Assessment Division. The services, requirements, and responsibilities of the division with regards to the losing

stream definition in the Water Quality Standards [10 CSR 20-7.031(1)/(L)/(M)] will not be changing in any way. No cost will be associated with this revision.

Antidegradation implementation procedures

The antidegradation policy currently exists in the Water Quality Standards in section (2) and the language will not be revised. Language has been added to section (2) to make it a requirement that the department develop a procedure for implementing the current antidegradation policy [10 CSR 20-7.031(2)(D)]. All levels of protection to waters of the state will be clarified but not significantly changed by the development of the antidegradation implementation procedure. Further clarification will promote a more consistent understanding and implementation of the policy. The economic benefit of requiring the procedure to be referenced in rule is that it may ensure prompter water quality reviews for permits. This procedure will be developed through the stakeholder process and be available to both the public and staff. No cost will be associated with this revision.

Site-specific criteria for the Protection of Aquatic Life

Currently the Water Quality Standards have three locations describing site-specific criteria methods for individual criteria for the protection of aquatic life. These site-specific references can be found in the dissolved oxygen criteria [10 CSR 20-7.031(4)(A)3.], toxic substances criteria [10 CSR 20-7.031(4)(B)1.], and sulfate and chloride criteria [10 CSR 20-7.031(4)(L)3.]. This language has been deleted and a new subsection [10 CSR 20-7.031(4)(R)] has been added to further explain the method of developing site-specific criteria for the protection of aquatic life for all water quality criteria. The new subsection will provide a clearer understanding of the specific steps necessary to establish alternative WQS where conditions are unique. The development of alternative standards can offer relief from standards that are unnecessarily burdensome or can offer standards that better reflect, and therefore protect, a water's specific biological, chemical, or physical characteristics. No cost will be associated with this revision.

Mixing zones in Class C streams and streams with a seven (7)-day Q_{10} of less than 0.1 cfs

Mixing zones in classified streams with a seven (7)-day Q_{10} of less than 0.1 cubic feet per second (cfs) [10 CSR 20-7.031(4)(A)/5.4.] do not have adequate mixing to protect the stream under all hydrologic conditions. This draft rule proposed the removal of a mixing zone allowance on streams with a $7Q_{10}$ of less than 0.1 cfs.

The state may more promptly develop water quality based effluent limits on these discharges because the discharge limits would automatically default to the numeric standards for aquatic life. This default may pose more stringent effluent limits (and additional cost for treatment) on any person presently discharging into a low-flow stream where water quality based effluent limits are needed to protect the aquatic life use.

The information contained within the department's database does not provide enough detail to determine which of the public facilities are discharging to streams subject to this rule revision. Therefore, the number of facilities that discharge to a stream with a $7Q_{10}$ of less than 0.1 cfs is unknown and, consequently, the cost associated with this revision cannot be calculated or reasonably estimated at this time.

Specific criteria methods for wetlands

Wetlands represent a unique group of water bodies in Missouri. There are several types of wetlands making the development of specific (numeric) criteria for all wetlands difficult. Language has been added to further expand the procedure by which a specific wetland or wetland type could be assigned specific criteria for the protection of its designated uses [10 CSR 20-7.031(4)(A)/6./5.]. The development of specific criteria will improve the ability for the state to protective the unique nature of wetlands, protecting its specific biological, chemical, or physical characteristics. No cost will be associated with this revision.

Analytical method for drinking water supply metals

The present WQS [10 CSR 20-7.031(4)(B)2.B.] for the protection of drinking water supplies require metals to be analyzed using the dissolved method. The maximum contaminant levels (MCLs) for metals under the Safe Drinking Water Act (SDWA) are analyzed as total recoverable. Therefore, since the drinking water criteria in the WQS are derived from the SDWA, the analytical method for metals based on MCLs are proposed to be changed to total recoverable. Converting to an analytical method that measures total recoverable metals ensures the state's criteria are no less stringent than the federal standards.

The total recoverable method consists of one less step in the sampling technique (sample filtration), making the cost of total recoverable testing less, though not significantly, than the dissolved method. Currently the majority of facilities are reporting metals concentrations as total recoverable due to federal requirements [40 CFR 122.45(c)]. The total recoverable effluent limits are translated from the dissolved water quality criteria.

An increase in treatment cost could be required depending on the quality of the effluent discharged and level of treatment presently employed at each individual facility. The level of treatment at each facility ranges from minimal to advanced treatment. Information on each situation is insufficient to calculate how much alteration of treatment would be needed.

Municipal wastewater treatment plants that receive industrial discharge have pretreatment programs to aid in metals treatment. Municipal entities typically do not have the technology to treat for metals. Some pretreatment programs may have extra capacity for stricter limits since a percentage of their pollutant load may have been reserved for future growth during the original design of the facility. The number of significant industrial users (SIGs) indirectly affected by the pretreatment program is unknown.

The number of facilities that currently monitor for each drinking water supply metal can be found in Table 7. A total of 27 public facilities monitor and report one or more of the drinking water supply metals. A few facilities monitor and report using more than one analytical method. For example, a facility may be required to report copper as both dissolved and total recoverable. Therefore those select facilities are counted twice. Due to the factors listed above, an assessment of the cost cannot be calculated or reasonably estimated at this time.

Table 7.

Number of Facilities Monitoring for Metals: DWS			
Parameter	Public Facilities		
	Dissolved	Total	Total Recoverable
Antimony	0	1	1
Arsenic	1	3	15
Barium	0	1	1
Beryllium	0	0	0
Cadmium	0	2	20
Chromium	3	2	23
Copper	3	2	24
Iron	3	0	3
Lead	3	3	22
Manganese	0	2	1
Mercury	0	0	18
Nickel	1	2	19
Selenium	0	0	2
Silver	2	2	11
Thallium	0	0	1
Zinc	3	2	22

Metals criteria for aquatic life protection

The primary purpose of the revisions to the metals criteria is to bring state standards into strict equivalency to federal standards. Metal criteria for aquatic life protection were recalculated using the most recent toxicity data sets from EPA and included the results from tests performed on aquatic organisms in the genus *Ceriodaphnia*. The metals affected by this recalculation include cadmium, trivalent chromium (Cr^{+3}), hexavalent chromium (Cr^{+6}), copper, lead, nickel, silver, and zinc. The results of these criteria recalculations are equation based and, with the exception of hexavalent chromium, are hardness dependent. Also, the values in the table were revised and based on the lowest (most protective) hardness value.

These revised criteria may be more or less strict depending on the type of water body receiving each individual discharge, though most will be stricter. These changes will offer some additional protection to aquatic life, however, the changes are not great enough to result in an assessment that some waters do not now meet water quality standards.

The cost of treatment will vary on a case-by-case basis depending on the level of treatment presently employed at each facility. The level of treatment at each facility ranges from minimal to advanced. Information on each situation is insufficient to calculate how much alteration of treatment would be needed. Currently the majority of facilities are reporting metals concentrations as total recoverable due to federal requirements [40 CFR 122.45(c)]. The total recoverable effluent limits are translated from the dissolved water quality criteria. A facility could conduct additional effluent and stream sampling to obtain a more specific metal translator (rather than a default translator) to be used in converting the dissolved water quality criterion into a total recoverable effluent limit.

Municipal wastewater treatment plants that receive industrial discharge have pretreatment programs to aid in metals treatment. Municipal entities typically do not have the technology to treat for metals. Some pretreatment programs administered by cities may have extra capacity for stricter limits since a percentage of their pollutant load may have been reserved for future growth during the original design of the facility. The number of significant industrial users (SIGs) that would be indirectly affected by a municipal pretreatment program is unknown. However, 87 cities monitor for metals in their wastewater system. The effort to monitor specific metals in each of those systems can be found in Table 8.

Table 8.

Number of Facilities Monitoring for Metals: AQL	
Parameter	Public Facilities
Cadmium	64
Chromium	75
Copper	86
Lead	74
Nickel	59
Silver	41
Zinc	78

E. coli and 1986 criteria

Missouri has been encouraged to adopt EPA's *Ambient Water Quality Criteria for Bacteria—1986* for WBCR. Following additional research and data collection, new bacterial indicators were developed and published in 1986 by EPA. *E. coli* was found to be a better indicator of illness in swimmers of freshwater systems than fecal coliform. Therefore, *E. coli* will be adopted as the indicator bacteria and the 1986 criteria will apply for water bodies with WBCR designations [10 CSR 20-7.031(4)(C) and Table A]. By adopting the new indicator bacteria, the level of protection for recreators in waters will be better understood and, therefore, better managed. The current wastewater treatment used to meet the current criterion will not need to change because of the new criterion. However, if analyzing for *E. coli* identifies overall levels of harmful pathogens not identified by the previous analyses for fecal coliform, additional treatment may be necessary.

Discharges to Outstanding Resource Waters

Outstanding National and State Resource Waters (ONRWs and OSRWs) already receive the highest level of protection from degradation of water quality through the application of the Tier III antidegradation standards. The changes in this draft rule at 10 CSR 20-7.031(7) to eliminate the specific limitations on Publicly-Owned Treatment Works (POTWs) and mine dewatering water does not change the requirement that these discharges meet the Tier III antidegradation standard. In effect, the rule will cost entities associated with the specific discharges mentioned above only if they are not currently able to achieve the Tier III standard without providing additional treatment. To the best of the department's knowledge, all of the discharges currently within the watershed of the ONRWs and OSRWs comply with the Tier III standard or are under an enforceable plan to ensure their compliance.

Consequently, there are no expected immediate economic costs or benefits to result from this change. However, the change does ensure strict equivalence of the state standard with the corresponding federal standard for protection of exceptionally high quality waters. Therefore, this rule amendment may affect future decisions on discharges within the watersheds of ONRWs and OSRWs, and consequently affect the future economic costs and benefits.

High flow exemption

Missouri currently allows the bacteria limits to be exceeded during periods of storm water runoff (high flow exemption). As currently written, the high flow exemption might not ensure that the whole body contact recreational use is adequately protected. The language [10 CSR 20-7.031(4)(C)] allows for broad interpretation and implementation. Therefore, the high flow exemption is being revised to better define the method for assessing when an exemption may be granted. This language has been moved from the WQS to the Effluent Regulations. Better definition of the exemption period may help dischargers better design treatment plans to avoid unnecessary costs.

Table A—Criteria for Designated Uses

Several parameters in 10 CSR 20-7.031 Table A—Criteria for Designated Uses are currently inconsistent with federal criteria. The human health protection—fish consumption criteria affected include 2,4,6-trichlorophenol; n-nitrosopyrrolidene; 4-4'-DDE; 4-4'-DDD; and chloroform. The drinking water supply criteria affected include 2,3,7,8-TCDD (dioxin); trihalomethanes; dichlorobromomethane; methylene chloride. The criteria affected for the protection of both human health—fish consumption and drinking water supply include 1,2,4,5-tetrachlorobenzene; pentachlorobenzene; 4-4'-DDT; bis (chloromethyl) ether; bromoform; chlorodibromomethane; tetrachloroethylene; and 1,2-dichloropropane.

All of the above criteria were changed to match federal criteria. The changes are not considered great enough to result in an assessment that some waters do not now meet water quality standards. Therefore, no change in current treatment (therefore, no new costs) are expected.

The number of public facilities monitoring for the specific parameters is currently zero (0). No record exists of any facility currently monitoring and reporting the parameters listed above. Some facilities may not be counted since these parameters may be monitored through Whole Effluent Toxicity (WET) tests and/or the general toxic organics test. Industrial facilities that discharge to municipal wastewater treatment plants may be required to go through the pretreatment process. The number of significant industrial users (SIGs) indirectly affected by the pretreatment program is unknown.

Table B—Total Ammonia Nitrogen

EPA published new total ammonia nitrogen criteria for the protection of aquatic life in December 1999. Advances in research methods and increases in funding have allowed toxicologists to more accurately assess the toxicity of ammonia to aquatic life. The new ammonia criteria will be adopted to reflect improvements to the current (1984) criteria. Because the 1999 criteria are less stringent in some cases (depending on water temperature and pH), future limits on ammonia may increase in some permits because of this change. The actual number of permitted facilities monitoring for ammonia (and therefore potentially affected by this draft rule) can be found in Table 9. A total of 184 public facilities monitor and report one or more of the forms of ammonia listed in Table 9.

Table 9.

Number of Facilities Monitoring for Ammonia Nitrogen	
Parameter	Public Facilities
NH3	12
NH3 N	1
NH3 T	177
NH4 T	2

Table C—Cold Water Fisheries

During review of 10 CSR 20-7.031, Table C—Water Bodies Designated for Cold-Water Fisheries, six waters designated for cold water fisheries had reduced mileage or were removed during past revisions without adequate explanation. These waters have been restored to Table C. Bull Shoals Lake (Ozark County) and Indian Creek (Franklin and Washington Counties) were added to the table. In addition, this revision included corrections to Little Piney Creek (Phelps County), North Fork White River (Ozark County), South Indian Creek (Newton and McDonald Counties), and Spring Creek (Douglas and Ozark Counties). These changes will not likely have an immediate environmental impact (cost or benefit). However, any future decisions regarding discharges to these waters will be based on the more restrictive standards associated with the Cold-Water Fisheries use designation.

Table E—Outstanding State Resource Water

During the June 18, 2003 meeting, the Missouri Clean Water Commission directed staff to propose Bull Creek for Outstanding State Resource Water status. Bull Creek will be added for the mileage located within or adjacent to the Mark Twain National Forest in Christian County. This change would increase the level of protection to Bull Creek by eliminating the option that new dischargers could lower the water quality if they demonstrated a socio-economic need that out-weighs the environmental benefit from maintaining present water quality. Currently no permitted wastewater treatment plants, industrial discharges, regulated Confined Animal Feeding Operations (CAFOs), or general permits exist within the section of Bull Creek proposed for designation. This change may result in the need for advanced (more costly) treatment on future discharges to Bull Creek tributaries.

Table G—Lake Classification and Use Designation and Table H—Stream Classification and Use Designations

The several minor corrections, such as legal descriptions, that will be made to Tables G and H do not change the classification or use designations assigned to that water. The revisions where additional mileage or acreage would be added are those instances where mileage or acreage was deleted during the last rulemaking that did not have evidence to support such a change. With such minor changes, this revision will incur no additional cost.

Economic Costs Associated with WBCR Use Designation:

Disinfection cost

The current number of domestic wastewater treatment facilities (WWTFs or facilities) without bacteria monitoring that would be affected by this rule were taken from the department's Water Quality Information System database (WQIS). All cost estimates have been adjusted to reflect the cost of equipment, installation, and operation and maintenance of disinfection systems for the year 2004 using the Engineering News Record Construction Cost Index (CCI). The costs do not include the cost of borrowing money to finance upgrades. Additional costs to municipalities may include the expense of administering sewer rates increases or enacting new ordinances related to sewer connections and pretreatment requirements. Communities where Combined Sewer Overflows (CSOs) might cause the bacteria standards to be exceeded face another unknown (and potentially significant) cost in addressing these events. Furthermore, substantial costs may also come from the need to increase monitoring of discharges or the receiving stream for compliance.

The estimates do not identify the facilities having more than one effluent outfall. Some facilities may need to provide disinfection for multiple outfalls. Certain types of facilities, particularly lagoons, may not be able to adapt a disinfection system to the treatment process and may be required to upgrade to an entirely different system to ensure compliance.

According to National Small Flows Clearinghouse (see document reference #39 in Section 2 of the WQS Regulatory Impact Report), the cost of chlorine disinfection systems is dependent on the manufacturer, the site, the capacity of the plant, and the characteristics of the wastewater to be disinfected. The total cost of chlorination will be increased by approximately 30 to 50% with the addition of dechlorination. In 1995, the Water Environment Research Federation conducted a study for secondary effluents from disinfection facilities at average dry weather flow rates of 1, 10, and 100 million gallons per day (MGD) (2.25, 20, and 175 MGD peak wet weather flow, respectively). The cost estimates ranged from \$410,000 to \$445,000 for systems treating 1 MGD. The annual operation and maintenance (O&M) costs for chlorine disinfection include power consumption, chemicals and supplies, miscellaneous equipment repairs, and personnel costs. The study also states that requirements associated with the Uniform Fire Code can add more than \$200,000 to chlorination costs.

To make the cost estimations for equipment, installation, and O&M more manageable, the department categorized facilities into similar groups by design flow. The use of either chlorination or an ultraviolet disinfection system was determined according to the size of a facility's design flow in MGD. The determination of the appropriate equipment needed for each category was based on peak flow. Peak flows were calculated from the average flow using standard engineering factors. (See **Appendix D** of the WQS Regulatory Impact Report)

These calculations assume all wastewater facilities that are not currently disinfecting, and located within two (2) miles of a classified water body, will be required to disinfect their effluent. In addition, it was assumed that those facilities currently monitoring bacteria levels

are in fact disinfecting their effluent. These calculations do not take into account the cost to future facilities that do not presently have an operating permit. Additionally, the cost estimate calculations assume that most mechanical facilities will use ultraviolet disinfection while lagoon systems will use chlorination. Therefore, it was also assumed that mechanical facilities would not need additional filtration since their effluent would be of high quality. The cost of dechlorination was calculated for facilities that were anticipated to add chlorine disinfection.

Assumptions for the ultraviolet (UV) disinfection system costs include

- a) Fifty-eight (58) arc UV lamps,
- b) UV lamp replacement once per year,
- c) Twenty-five percent (25%) engineering contingency,
- d) One (1) UV kilowatt (kW) equals thirty-seven (37) lamps per one (1.0) million gallons per day (MGD),
- e) Number of lamps based on peak flows,
- f) Cost for constructing a building approximately equal the cost of lamps for WWTP using less than 100 lamps,
- g) Cost for constructing a building approximately seventy-five percent (75%) the cost of lamps for WWTP using more than 100 lamps, and
- h) Number and cost of UV lamps include redundancy and additional spare lamps.

Assumptions for the Chlorine (Cl) disinfection system costs include

- a) Twenty-five percent (25%) engineering contingency,
- b) Chlorine dose based on peak flows, and
- c) Ten milligrams per liter (10 mg/L) dosing concentration.

For facilities with a design flow of less than or equal to 1.0 MGD, tablet chlorination will be used. Gas chlorination is assumed for design flows of greater than 1.0 MGD.

Addition assumptions for facility size include

- a) Those facilities with a design flow of less than or equal to 0.05 MGD would have an average flow of 0.036 MGD and a peak flow of 0.144 MGD (peak factor of 4);
- b) Those facilities with a design flow of greater than 0.05 MGD but less than or equal to 1.0 MGD would have an average flow of 0.255 MGD and a peak flow of 0.894 MGD (peak factor of 3.5);
- c) Those facilities with a design flow of greater than 1.0 MGD but less than or equal to 20.0 MGD would have an average flow of 3.6 MGD and a peak flow of 10.81 MGD (peak factor of 3); and
- d) Those facilities with a design flow of greater than 20.0 MGD would have an average flow of 91.4 MGD and a peak flow of 228.4 MGD (peak factor of 2.5).

Implementation

The department is proposing an implementation schedule for permitted facilities to comply with the new rules. Such a schedule will allow impacted facilities time to: 1) install necessary equipment, 2) conduct a scientific study to determine if disinfection is required to protect WBCR, or 3) conduct a Use Attainability Analysis (UAA) to determine if a water body does not support WBCR. The effect such a schedule would have on costs is discussed

in the Fiscal Note prepared for the proposed amendments to the Effluent Rule (10 CSR 20-7.015).

Analytical testing cost

The frequency for analytical testing of facilities is specific to each permit that would be affected by the WBCR designation. It is assumed that facilities of similar size and type will most likely require similar monitoring frequency.

Facilities will not be required to test for both fecal coliform and *E. coli*. The draft regulations state that either can be monitored for a period of three years. After that time, entities will be required to monitor only *E. coli*. The transition phase was developed to allow entities and the laboratories time to make the conversion to *E. coli*. Since *E. coli* requires a slightly different method of analysis, additional equipment may need to be acquired. The cost of analysis for fecal coliform and *E. coli* is essentially the same beyond the initial equipment. In addition, since only fecal coliform is presently required, few labs have established costs for effluent *E. coli* testing. Therefore, only the cost of analyzing fecal coliform was used in the calculations.

Recreational UAA procedure cost

The staff and associated resources for the calculation were based on the UAA program conducted by Kansas Department of Health and Environment (KDHE). Several assumptions are explained below.

These cost calculations for conducting UAAs are solely based on the investigation of depth requirements (criteria #2 of the recreational UAA document). If analysis is need for other components of the UAA, such as bacteria or economics, the department or other entity may have additional costs.

Several resources are presently accessed or owned by the department. These include mapping programs to determine survey sites, highway maps to determine the best route, computers, copy machines, one digital camera, two handheld global positioning system (GPS) units, and vehicles to use in the field.

The department would need to acquire or develop the following in order to conduct recreational UAAs. Currently the KDHE staff consists of three full-time employees (FTE) and three part-time employees for the stream UAA program and consists of two department staff part-time for the lake UAA program. The staff time for the lake program was estimated as a total of 0.5 FTE, since lake UAAs consume less time than stream UAAs and the number of lakes are small. The FTEs itemized in the calculation will be responsible for doing preparatory work, field surveys, data entry, and report writing. The UAA information will be used in the potential revision of the WQS and submitted to USEPA.

The estimated salary for an FTE was calculated from the average of the salary range for each of the Environmental Specialist I, II, and III categories. With the recreational season lasting from April 1 to October 31 of each year, part-time salaries were computed based an average of thirty (30) weeks at forty (40) hours per week and a pay rate of \$10 per hour.

The cost estimate included three additional digital cameras and two additional GPS units with corresponding software.

Locational data could be added to the existing Water Quality Information System (WQIS), but not all the data collected due to a UAA could be added to this database. Another database or organizational tool will be needed to collect all data (pictures, descriptions, analyses, etc.). This would be included in the FTEs' duties. Therefore, no additional cost for database creation or management will be needed.

Travel expenses include overnight stays, meals, and vehicle mileage. Under the assumption that three days per week are spent in the field, two nights of lodging are needed each week. The cost of lodging and meals were figured using the average of each region within Missouri at the maximum per diem rate. Vehicle usage was assessed as mileage with an average of 125 miles per day based on the area of the state and the average state rate of thirty-three cents per mile.

An internal review committee and quality assurance/quality control (QA/QC) program would need to be developed in order to insure consistency in re-designation of recreational uses. Based on the number of UAAs completed by Kansas during 2001 and 2002, an estimated five water bodies could be investigated per day. The review committee is assumed to consist of three department staff spending an average of one-half hour per UAA. The QA/QC program would be included in the field staff's time.

A rulemaking effort would be needed to remove WBCR as a designated use from a water body following a UAA that demonstrated the use couldn't be attained. At this time, the cost or number of potential rulemakings because of re-designation cannot be predicted.

The maximum number of UAAs that could be investigated is 3,774 based on current water body segment tallies. Based on the number of segments investigated by KDHE, all UAAs could be completed in 8.387 recreational seasons. It should be noted that this number represents a worse case scenario. Assumptions include five (5) water body segments per day and 3 days of fieldwork for 30 weeks during the recreational season.

$$5 \times 3 \times 30 = 450 \text{ water body segments per recreational season}$$
$$3,774 \div 450 = 8.387 \text{ recreational seasons}$$

Additional impacts

Further impacts due to the WBCR use designation may include the potential listing of additional waters on the 303(d) list, which results in the need to prepare Total Maximum Daily Loads (TMDLs). These costs cannot be measured at this time since the number of waters potentially falling into this category is unknown.

Costs to Nonpoint Sources

The amount of bacterial loads attributable to nonpoint sources is not well known. Data from the United States Geological Survey (USGS) and fixed station monitoring suggest that bacterial levels are higher in areas of agricultural use. **Appendix E** of the WQS Regulatory

Impact Report contains data on streams that do not receive appreciable amounts of domestic sewage treatment effluent. Higher bacteria levels are evident in streams in the northern regions of the state where agricultural land uses are more prevalent. Should nonpoint sources be identified as the cause for water quality exceeding bacterial standards, an effort will be required to assist these sources in reducing their contributions. Several incentive-based, non-regulatory programs are currently available to address the sources.

Costs to the General Public

Costs associated with upgrading domestic wastewater treatment facilities are often passed on to the individual users in the form of increased sewer rates. Whether or not sewer rate increases occur and the amount of these increases is determined by each owner of the facility and can not be reasonably predicted.

Economic Benefits Associated with WBCR Use Designation:

Some studies have been completed on the economic value of surface waters and the effect pollution has on these values. Based on a study in New Hampshire (see reference # 37 in Section 2 of the WQS Regulatory Impact Report), many studies have identified swimming, fishing, and boating as top recreational uses of surface water, and therefore important contributors to the water's economic value. A study in Maine estimated that \$1.09 billion in direct recreational expenditures resulted in \$1.7 billion in total economic activity and \$208 million in net economic value per year. Additional value ranging in the hundreds of millions of dollars was also found in other non-recreational uses, such as public drinking water, agricultural, industrial/commercial and lakefront properties.

These values would strongly suggest a correlation between water quality and economic benefits. To make a unbiased comparison between the economic costs mentioned previously and the economic benefits mentioned in the above paragraph, a study must be done on the actual money spent on enjoying water related activities in the specific waters potentially impacted by the discharges from identified facilities. No such analysis was completed because of the significant effort it would involve.

Table I—Biocriteria Reference Locations

Several changes were made to 10 CSR 20-7.031, Table I—Biocriteria Reference Locations due to water withdrawal for irrigation, accessibility limitations, and refinement of selection processes. These proposed changes reflect the loss of several waters as reliable indicators for natural background levels of pollutants. Because the loss of these waters as biocriteria reference streams is not the result of this rule, there is no economic impact (cost or benefit) to report here.

Miscellaneous typographical errors

Through a rulemaking process spelling, grammar, and typographical errors can occur without notice before a rule becomes effective. These simple mistakes are then corrected during the next revision to the rule. For example, the unit of measurement for volatile organics currently is listed as grams per liter (g/L), which was a typographical error. The correct unit of measurement is micrograms per liter (µg/L) and is being proposed as a change. Corrections made in this manner do not change the intent of the regulations. No cost will be associated with this revision.

**FISCAL NOTE
PRIVATE COST****I. RULE NUMBER**

<i>Rule Number and Name:</i>	10 CSR 20-7.031 Water Quality Standards
<i>Type of Rulemaking:</i>	Proposed Amendment

The revisions to 10 CSR 20-7.031 Water Quality Standards will:

1. Adopt eight new definitions (whole body contact recreation category A, whole body contact recreation category B, early life stages, 30-day Q10, 1-day Q10, reference lakes or reservoirs, water effect ratio, waters of the state) and revise three existing definitions (whole body contact recreation, boating and canoeing/secondary contact recreation, low-flow conditions);
2. Change the title of Division of Geology and Land Survey (DGLS) to the Geological Survey and Resource Assessment Division (GSRAD);
3. Add language for the development and use of antidegradation implementation procedures;
4. Delete existing site-specific criteria language pertaining to dissolved oxygen, Tables A & B, and sulfate plus chloride and add language establishing a method usable for all site-specific criteria for the protection of aquatic life;
5. Remove the allowance for mixing zones in streams with a seven (7)-day Q₁₀ of less than 0.1 cfs;
6. Add language detailing a method for establishing specific criteria for wetlands;
7. Change the analysis method for drinking water supply metals from dissolved to total recoverable;
8. Replace current hardness dependent metals criteria for aquatic life protection with recalculated, equation-based criteria;
9. Adopt *E. coli* as indicator bacteria and EPA's 1986 criteria;
10. Require discharges into Outstanding National and State Resource Waters or into their watershed be subject to special effluent limitations;
11. Move the bacterial high flow exemption to 10 CSR 20-7.015(9)(I) Effluent Regulations;
12. Change several criteria in Table A—Criteria for Designated Uses to EPA's recommended criteria;
13. Adopt new total ammonia nitrogen criteria developed in December 1999 by EPA;
14. Revise or add six waters designated for cold water fisheries (Table C);
15. Add Bull Creek, located within the Mark Twain National Forest in Christian County, as an Outstanding State Resource Water;
16. Revise Table G—Lake Classification and Use Designation and Table H—Stream Classification and Use Designations to rectify discrepancies stated by EPA;
17. Designate all waters listed in Tables G and H for whole body contact recreation;
18. Revise Table I—Biocriteria Reference Locations due to refinement of selection processes; and
19. Correct miscellaneous typographical errors.

II. SUMMARY OF FISCAL IMPACT

<i>Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule:</i>	<i>Classification by types of the business entities which would likely be affected:</i>	<i>Estimate in the aggregate as to the cost of compliance with the rule by the affected entities:</i>
484	Private facilities that do not presently disinfect wastewater discharges with design flows of less than or equal to 0.05 MGD*	Estimated installation costs = \$12,473,000 Estimated operating and maintenance (O & M) costs per year = \$9,159,000 Estimated analytical testing costs per year = \$135,000
20	Private facilities that do not presently disinfect wastewater discharges with design flows of greater than 0.05 MGD but less than or equal to 1.0 MGD	Estimated installation costs = \$1,034,000 Estimated O & M costs per year = \$2,522,000 Estimated analytical testing costs per year = \$11,000
4	Private facilities that do not presently disinfect wastewater discharges with design flows of greater than 1.0 MGD but less than or equal to 20.0 MGD	Estimated installation costs = \$6,885,000 Estimated O & M costs per year = \$505,000 Estimated analytical testing costs per year = \$11,000
0	Private facilities that do not presently disinfect wastewater discharges with design flows of greater than 20.0 MGD	Estimated installation costs = \$0 Estimated O & M costs per year = \$0 Estimated analytical testing costs per year = \$0

*MGD = million gallons per day

The Code of Federal Regulations at 40 CFR 131.20 requires a state to review its water quality standards at least once every three (3) years (Triennial Review). Missouri's Water Quality Standards (WQS) were last revised in 1994 and 1996. On September 8, 2000, the United States Environmental Protection Agency (EPA) officially disapproved some revisions made to the WQS in 1994 and 1996, saying that certain portions were inconsistent with the Federal Clean Water Act (CWA or Act).

The department responded by providing a three-phase schedule that outlines the order that it will address changes demanded by EPA as well as other issues. This proposed amendment is the first phase of this process and is an effort to resolve many of the disapprovals and inconsistencies so that the state's rules are functional equivalent to the CWA and federal rules. To achieve this equivalence, the state must either adopt federal rule or guidance, or develop alternate rules that are based on an equal level of structured scientific analysis applied to the development of the federal standards. Because the state does not have the resources to perform scientific research at that level, it has chosen to directly adopt federal standards as the new state standards. In doing so, it also adopts the science used by EPA experts in the development of the federal standards.

EPA may rectify these and other disapproved items by federal rulemaking if the state does not do so. In addition, the Missouri Coalition for the Environment has sued EPA to compel the state, through EPA, to promptly comply with many of the items explained in EPA's September 8, 2000, letter.

III. WORKSHEET

Definitions

No cost will be associated with this revision.

“Division of Geology and Land Survey” changes to “Geological Survey and Resource Assessment Division”

No cost will be associated with this revision.

Antidegradation implementation procedures

No cost will be associated with this revision.

Site-specific criteria for the Protection of Aquatic Life

No cost will be associated with this revision.

Mixing zones in streams with a seven (7)-day Q_{10} less than 0.1 cfs

An assessment of the cost cannot be calculated or reasonably estimated at this time.

Specific criteria methods for wetlands

No cost will be associated with this revision.

Analytical method for drinking water supply metals

An assessment of the cost cannot be calculated or reasonably estimated at this time.

Metals criteria for aquatic life protection

An assessment of the cost cannot be calculated or reasonably estimated at this time.

E. coli and 1986 criteria

No cost will be associated with this revision.

Discharges to Outstanding Resource Waters

No cost will be associated with this revision.

High flow exemption

No cost will be associated with this revision.

Table A—Criteria for Designated Uses

An assessment of the cost cannot be calculated or reasonably estimated at this time.

Table B—Total Ammonia Nitrogen

An assessment of the cost cannot be calculated or reasonably estimated at this time.

Table C—Cold Water Fisheries

No cost will be associated with this revision.

Table E—Outstanding State Resource Water

No cost will be associated with this revision.

Table G—Lake Classification and Use Designation and Table H—Stream Classification and Use Designations

Several minor corrections, such as legal descriptions, will be made to Tables G and H. No cost will be associated with this revision.

Disinfection cost

All waters listed in Tables G and H will be designated for whole body contact recreation. The tables below show the estimated cost for disinfection per privately owned wastewater treatment plant (WWTP or facility) category for four size ranges and two types of disinfection system. Table 1 displays installation costs, Table 2 the operation and maintenance (O&M) costs, and Table 3 the number of privately owned facilities in each category of flow and type of disinfection system. For example, the 164 facilities with a flow of less than 0.05 MGD that have been estimated to use ultraviolet (UV) disinfection will have a total installation cost of \$8,472,650 and total annual operating and maintenance cost of \$358,750. Unit rate assumptions are in **Appendix D** of the WQS Regulatory Impact Report.

Table 1

Design Flow in million gallons per day (MGD)	Total Installation Cost		
	Disinfection System		Total
	UV	Chlorination	
Design flow less than 0.05 MGD	\$8,472,650.00	\$4,000,000.00	\$12,472,650.00
Design flow of 0.05 to less than 1.0 MGD	\$731,912.50	\$301,875.00	\$1,033,787.50
Design flow of 1.0 to less than 20.0 MGD	\$2,430,000.00	\$4,454,122.50	\$6,884,122.50
Total	\$11,634,562.50	\$8,755,997.50	\$20,390,560.00

Table 2

Design Flow in million gallons per day (MGD)	Total Annual Operation & Maintenance Cost		
	Disinfection System		Total
	UV	Chlorination	
Design flow less than 0.05 MGD	\$358,750.00	\$8,800,000.00	\$9,158,750.00
Design flow of 0.05 to less than 1.0 MGD	\$30,975.00	\$2,490,506.25	\$2,521,481.25
Design flow of 1.0 to less than 20.0 MGD	\$163,970.00	\$340,050.00	\$504,020.00
Total	\$553,695.00	\$11,630,556.25	\$12,184,251.25

Table 3

Design Flow in million gallons per day (MGD)	Private WWTP Numbers		Total
	UV	Disinfection System Chlorination	
Design flow less than 0.05 MGD	164	320	484
Design flow of 0.05 to less than 1.0 MGD	5	15	20
Design flow of 1.0 to less than 20.0 MGD	2	2	4
Design flow greater than 20.0 MGD	0	0	0
Total	171	337	508

Ultraviolet disinfection cost estimates were derived from data provided by an EPA document titled, *Ultraviolet Disinfection Technology Assessment*, 1990. All cost estimates have been adjusted to reflect the cost of equipment, installation, and operation and maintenance for the year 2004 using the Engineering News Record Construction Cost Index (CCI).

Chlorination disinfection cost estimates were derived from data provided by a National Small Flows Clearinghouse fact sheet titled, *Chlorine Disinfection*, 1995. Cost estimates from outside manufacturers of chlorinating tablet feeders were also used for the smaller wastewater treatment plants. All cost estimates have been adjusted to reflect the cost of equipment, installation, and operation and maintenance for 2004 using the Engineering News Record Construction Cost Index (CCI).

Analytical testing cost

Analytical testing costs were established by averaging the cost of fecal coliform and total residual chlorine testing from ten (10) laboratories in Missouri and neighboring states that provide services to facilities from Missouri. The monitoring frequency of each facility in Table 3 is currently established in their permits and was gathered from a MDNR database. Table 4 shows the cost due to the frequency of analytical testing of fecal coliform (FC) and total residual chlorine (TRC).

Table 4

Design Flow in million gallons per day (MGD)	Total Average Testing Cost per Year		
	FC	TRC	Disinfection System Total
Design flow less than 0.05 MGD	\$95,066.40	\$39,491.23	\$134,557.63
Design flow of 0.05 to less than 1.0 MGD	\$9,847.20	\$1,350.27	\$11,197.47
Design flow of 1.0 to less than 20.0 MGD	\$10,296.00	\$216.71	\$10,512.71
Total	\$115,209.60	\$41,058.21	\$156,267.81

Table I—Biocriteria Reference Locations

No cost will be associated with this revision.

Miscellaneous typographical errors

No cost will be associated with this revision.

IV. ASSUMPTIONS

Definitions

The addition of seven definitions (catastrophic storm event, early life stages, 30-day Q10, 1-day Q10, reference lakes or reservoirs, water effect ratio, and waters of the state) will better clarify the WQS. Language has been added to also clarify existing definitions (WBCR, boating & canoeing, and low-flow conditions). These clarifications should improve the accuracy of water quality reviews and consequently improve the choices for treatment and BMPs. The clarifications may also facilitate decision-making and reduce costs to the state and the regulated community through more timely feedback on permit applications.

“Division of Geology and Land Survey” changes to “Geological Survey and Resource Assessment Division”

In 2001, the Missouri Department of Natural Resources Division of Geology and Land Survey was officially renamed the Geological Survey and Resource Assessment Division. The services, requirements, and responsibilities of the division with regards to the losing stream definition in the Water Quality Standards [10 CSR 20-7.031(1)/(L)/(M)] will not be changing in any way. No cost will be associated with this revision.

Antidegradation implementation procedures

The antidegradation policy currently exists in the Water Quality Standards in section (2) and the language will not be revised. Language has been added to section (2) to make it a requirement that the department develop a procedure for implementing the current antidegradation policy [10 CSR 20-7.031(2)(D)]. All levels of protection to waters of the state will be clarified but not significantly changed by the development of the antidegradation implementation procedure. Further clarification will promote a more consistent understanding and implementation of the policy. The economic benefit of requiring the procedure to be referenced in rule is that it may ensure prompter water quality reviews for permits. This procedure will be developed through the stakeholder process and be available to both the public and staff. No cost will be associated with this revision.

Site-specific criteria for the Protection of Aquatic Life

Currently the Water Quality Standards have three locations describing site-specific criteria methods for individual criteria for the protection of aquatic life. These site-specific references can be found in the dissolved oxygen criteria [10 CSR 20-7.031(4)(A)3.], toxic substances criteria [10 CSR 20-7.031(4)(B)1.], and sulfate and chloride criteria [10 CSR 20-7.031(4)(L)3.]. This language has been deleted and a new subsection [10 CSR 20-7.031(4)(R)] has been added to further explain the method of developing site-specific criteria for the protection of aquatic life for all water quality criteria. The new subsection will provide a clearer understanding of the specific steps necessary to establish alternative WQS where conditions are unique. The development of alternative standards can offer relief from standards that are unnecessarily burdensome or can offer standards that better reflect, and therefore protect, a water's specific biological, chemical, or physical characteristics. No cost will be associated with this revision.

Mixing zones in Class C streams and streams with a seven (7)-day Q_{10} of less than 0.1 cfs

Mixing zones in classified streams with a seven (7)-day Q_{10} of less than 0.1 cubic feet per second (cfs) [10 CSR 20-7.031(4)(A)/5./4.] do not have adequate mixing to protect the stream under all hydrologic conditions. This draft rule proposed the removal of a mixing zone allowance on streams with a $7Q_{10}$ of less than 0.1 cfs.

The state may more promptly develop water quality based effluent limits on these discharges because the discharge limits would automatically default to the numeric standards for aquatic life. This default may pose more stringent effluent limits (and additional cost for treatment) on any person presently discharging into a low-flow stream where water quality based effluent limits are needed to protect the aquatic life use.

The information contained within the department's database does not provide enough detail to determine which of the public facilities are discharging to streams subject to this rule revision. Therefore, the number of facilities that discharge to a stream with a $7Q_{10}$ of less than 0.1 cfs is unknown and, consequently, the cost associated with this revision cannot be calculated or reasonably estimated at this time.

Specific criteria methods for wetlands

Wetlands represent a unique group of water bodies in Missouri. There are several types of wetlands making the development of specific (numeric) criteria for all wetlands difficult. Language has been added to further expand the procedure by which a specific wetland or wetland type could be assigned specific criteria for the protection of its designated uses [10 CSR 20-7.031(4)(A)/6./5.]. The development of specific criteria will improve the ability for the state to protective the unique nature of wetlands, protecting its specific biological, chemical, or physical characteristics. No cost will be associated with this revision.

Analytical method for drinking water supply metals

The present WQS [10 CSR 20-7.031(4)(B)2.B.] for the protection of drinking water supplies require metals to be analyzed using the dissolved method. The maximum contaminant levels (MCLs) for metals under the Safe Drinking Water Act (SDWA) are analyzed as total recoverable. Therefore, since the drinking water criteria in the WQS are derived from the SDWA, the analytical method for metals based on MCLs are proposed to be changed to total recoverable. Converting to an analytical method that measures total recoverable metals ensures the state's criteria are no less stringent than the federal standards.

The total recoverable method consists of one less step in the sampling technique (sample filtration), making the cost of total recoverable testing less, though not significantly, than the dissolved method. Currently the majority of facilities are reporting metals concentrations as total recoverable due to federal requirements [40 CFR 122.45(c)]. The total recoverable effluent limits are translated from the dissolved water quality criteria.

An increase in treatment cost could be required depending on the quality of the effluent discharged and level of treatment presently employed at each individual facility. The level of treatment at each facility ranges from minimal to advanced treatment. Information on each situation is insufficient to calculate how much alteration of treatment would be needed.

Municipal wastewater treatment plants that receive industrial discharge have pretreatment programs to aid in metals treatment. Municipal entities typically do not have the technology to treat for metals. Some pretreatment programs may have extra capacity for stricter limits since a percentage of their pollutant load may have been reserved for future growth during the original design of the facility. The number of significant industrial users (SIGs) indirectly affected by the pretreatment program is unknown.

The number of facilities that currently monitor for each drinking water supply metal can be found in Table 5. A total of 52 private facilities monitor and report one or more of the drinking water supply metals. Due to the factors listed above, an assessment of the cost cannot be calculated or reasonably estimated at this time.

Table 5.

Number of Facilities Monitoring for Metals: DWS	
Parameter	Private Facilities
Antimony	21
Arsenic	28
Barium	24
Beryllium	22
Cadmium	30
Chromium	30
Copper	41
Iron	34
Lead	37
Manganese	24
Mercury	26
Nickel	31
Selenium	25
Silver	23
Thallium	19
Zinc	37

Metals criteria for aquatic life protection

The primary purpose of the revisions to the metals criteria is to bring state standards into strict equivalency to federal standards. Metal criteria for aquatic life protection were recalculated using the most recent toxicity data sets from EPA and included the results from tests performed on aquatic organisms in the genus *Ceriodaphnia*. The metals affected by this recalculation include cadmium, trivalent chromium (Cr^{+3}), hexavalent chromium (Cr^{+6}), copper, lead, nickel, silver, and zinc. The results of these criteria recalculations are equation based and, with the exception of hexavalent chromium, are hardness dependent. Also, the values in the table were revised and based on the lowest (most protective) hardness value.

These revised criteria may be more or less strict depending on the type of water body receiving each individual discharge, though most will be stricter. These changes will offer

some additional protection to aquatic life, however, the changes are not great enough to result in an assessment that some waters do not now meet water quality standards.

The cost of treatment will vary on a case-by-case basis depending on the level of treatment presently employed at each facility. The level of treatment at each facility ranges from minimal to advanced. Information on each situation is insufficient to calculate how much alteration of treatment would be needed. Currently the majority of facilities are reporting metals concentrations as total recoverable due to federal requirements [40 CFR 122.45(c)]. The total recoverable effluent limits are translated from the dissolved water quality criteria. A facility could conduct additional effluent and stream sampling to obtain a more specific metal translator (rather than a default translator) to be used in converting the dissolved water quality criterion into a total recoverable effluent limit.

Municipal wastewater treatment plants that receive industrial discharge have pretreatment programs to aid in metals treatment. Municipal entities typically do not have the technology to treat for metals. Some pretreatment programs administered by cities may have extra capacity for stricter limits since a percentage of their pollutant load may have been reserved for future growth during the original design of the facility. The number of significant industrial users (SIGs) that would be indirectly affected by a municipal pretreatment program is unknown. However, the number of facilities that currently monitor for each metal for the protection of aquatic life can be found in Table 6. A total of 159 private facilities monitor and report one or more of these metals.

Table 6.

Number of Facilities Monitoring for Metals: AQL	
Parameter	Private Facilities
Cadmium	104
Chromium	98
Copper	155
Lead	92
Nickel	77
Silver	72
Zinc	141

E. coli and 1986 criteria

Missouri has been encouraged to adopt *EPA's Ambient Water Quality Criteria for Bacteria—1986* for WBCR. Following additional research and data collection, new bacterial indicators were developed and published in 1986 by EPA. *E. coli* was found to be a better indicator of illness in swimmers of freshwater systems than fecal coliform. Therefore, *E. coli* will be adopted as the indicator bacteria and the 1986 criteria will apply for water bodies with WBCR designations [10 CSR 20-7.031(4)(C) and Table A]. By adopting the new indicator bacteria, the level of protection for recreators in waters will be better understood and, therefore, better managed. The current wastewater treatment used to meet the current criterion will not need to change because of the new criterion. However, if analyzing for *E. coli* identifies overall levels of harmful pathogens not identified by the previous analyses for fecal coliform, additional treatment may be necessary.

Discharges to Outstanding Resource Waters

Outstanding National and State Resource Waters (ONRWs and OSRWs) already receive the highest level of protection from degradation of water quality through the application of the Tier III antidegradation standards. The changes in this draft rule at 10 CSR 20-7.031(7) to eliminate the specific limitations on Publicly-Owned Treatment Works (POTWs) and mine dewatering water does not change the requirement that these discharges meet the Tier III antidegradation standard. In effect, the rule will cost entities associated with the specific discharges mentioned above only if they are not currently able to achieve the Tier III standard without providing additional treatment. To the best of the department's knowledge, all of the discharges currently within the watershed of the ONRWs and OSRWs comply with the Tier III standard or are under an enforceable plan to ensure their compliance. Consequently, there are no expected immediate economic costs or benefits to result from this change. However, the change does ensure strict equivalence of the state standard with the corresponding federal standard for protection of exceptionally high quality waters. Therefore, this rule amendment may affect future decisions on discharges within the watersheds of ONRWs and OSRWs, and consequently affect the future economic costs and benefits.

High flow exemption

Missouri currently allows the bacteria limits to be exceeded during periods of storm water runoff (high flow exemption). As currently written, the high flow exemption might not ensure that the whole body contact recreational use is adequately protected. The language [10 CSR 20-7.031(4)(C)] allows for broad interpretation and implementation. Therefore, the high flow exemption is being revised to better define the method for assessing when an exemption may be granted. This language has been moved from the WQS to the Effluent Regulations. Better definition of the exemption period may help dischargers better design treatment plans to avoid unnecessary costs.

Table A—Criteria for Designated Uses

Several parameters in 10 CSR 20-7.031 Table A—Criteria for Designated Uses are currently inconsistent with federal criteria. The human health protection—fish consumption criteria affected include 2,4,6-trichlorophenol; n-nitrosopyrrolidene; 4-4'-DDE; 4-4'-DDD; and chloroform. The drinking water supply criteria affected include 2,3,7,8-TCDD (dioxin); trihalomethanes; dichlorobromomethane; methylene chloride. The criteria affected for the protection of both human health—fish consumption and drinking water supply include 1,2,4,5-tetrachlorobenzene; pentachlorobenzene; 4-4'-DDT; bis (chloromethyl) ether; bromoform; chlorodibromomethane; tetrachloroethylene; and 1,2-dichloropropane.

All of the above criteria were changed to match federal criteria. The changes are not considered great enough to result in an assessment that some waters do not now meet water quality standards. Therefore, no change in current treatment (therefore, no new costs) are expected.

The number of facilities monitoring for the specific parameters listed above can be found in Table 7. For parameters not listed in the table, no record exists of any facility currently monitoring and reporting that specific parameter. In addition, some facilities may not be counted in Table 7 since these parameters may be monitored through Whole Effluent Toxicity (WET) tests and/or the general toxic organics test. Industrial facilities that

discharge to municipal wastewater treatment plants may be required to go through the pretreatment process. The number of significant industrial users (SIGs) indirectly affected by the pretreatment program is unknown. A total of 15 private facilities monitor and report one or more of the specific parameters listed in Table 7.

Table 7.

Number of Facilities Monitoring for Select Parameters in Table A	
Parameter	Private Facilities
2,4,6-trichlorophenol	4
2,3,7,8-tetrachlorodibenzo-p-dioxin [TCDD or dioxin]	2
methylene chloride	8
tetrachloroethylene	6
1,2-dichloroethylene	3
chloroform	9

Table B—Total Ammonia Nitrogen

EPA published new total ammonia nitrogen criteria for the protection of aquatic life in December 1999. Advances in research methods and increases in funding have allowed toxicologists to more accurately assess the toxicity of ammonia to aquatic life. The new ammonia criteria will be adopted to reflect improvements to the current (1984) criteria. Because the 1999 criteria are less stringent in some cases (depending on water temperature and pH), future limits on ammonia may increase in some permits because of this change. The actual number of permitted facilities monitoring for ammonia (and therefore potentially affected by this draft rule) can be found in Table 8. A total of 251 private facilities monitor and report one or more of the forms of ammonia listed in Table 8.

Table 8.

Number of Facilities Monitoring for Ammonia Nitrogen	
Parameter	Private Facilities
NH ₃	13
NH ₃ N	1
NH ₃ T	243
NH ₄ T	1

Table C—Cold Water Fisheries

During review of 10 CSR 20-7.031, Table C—Water Bodies Designated for Cold-Water Fisheries, six waters designated for cold water fisheries had reduced mileage or were removed during past revisions without adequate explanation. These waters have been restored to Table C. Bull Shoals Lake (Ozark County) and Indian Creek (Franklin and Washington Counties) were added to the table. In addition, this revision included corrections to Little Piney Creek (Phelps County), North Fork White River (Ozark County), South Indian Creek (Newton and McDonald Counties), and Spring Creek (Douglas and Ozark Counties). These changes will not likely have an immediate environmental impact (cost or benefit). However, any future decisions regarding discharges to these waters will be based on the more restrictive standards associated with the Cold-Water Fisheries use designation.

Table E—Outstanding State Resource Water

During the June 18, 2003 meeting, the Missouri Clean Water Commission directed staff to propose Bull Creek for Outstanding State Resource Water status. Bull Creek will be added for the mileage located within or adjacent to the Mark Twain National Forest in Christian County. This change would increase the level of protection to Bull Creek by eliminating the option that new dischargers could lower the water quality if they demonstrated a socio-economic need that out-weighs the environmental benefit from maintaining present water quality. Currently no permitted wastewater treatment plants, industrial discharges, regulated Confined Animal Feeding Operations (CAFOs), or general permits exist within the section of Bull Creek proposed for designation. This change may result in the need for advanced (more costly) treatment on future discharges to Bull Creek tributaries.

Table G—Lake Classification and Use Designation and Table H—Stream Classification and Use Designations

The several minor corrections, such as legal descriptions, that will be made to Tables G and H do not change the classification or use designations assigned to that water. The revisions where additional mileage or acreage would be added are those instances where mileage or acreage was deleted during the last rulemaking that did not have evidence to support such a change. With such minor changes, this revision will incur no additional cost.

Economic Costs Associated with WBCR Use Designation:

Disinfection cost

The current number of domestic wastewater treatment facilities (WWTFs or facilities) without bacteria monitoring that would be affected by this rule were taken from the department's Water Quality Information System database (WQIS). All cost estimates have been adjusted to reflect the cost of equipment, installation, and operation and maintenance of disinfection systems for the year 2004 using the Engineering News Record Construction Cost Index (CCI). The costs do not include the cost of borrowing money to finance upgrades. Substantial costs may also come from the need to increase monitoring of discharges or the receiving stream for compliance.

The estimates do not identify the facilities having more than one effluent outfall. Some facilities may need to provide disinfection for multiple outfalls. Certain types of facilities, particularly lagoons, may not be able to adapt a disinfection system to the treatment process and may be required to upgrade to an entirely different system to ensure compliance.

According to National Small Flows Clearinghouse (see document reference #39 in Section 2 of the WQS Regulatory Impact Report), the cost of chlorine disinfection systems is dependent on the manufacturer, the site, the capacity of the plant, and the characteristics of the wastewater to be disinfected. The total cost of chlorination will be increased by approximately 30 to 50% with the addition of dechlorination. In 1995, the Water Environment Research Federation conducted a study for secondary effluents from disinfection facilities at average dry weather flow rates of 1, 10, and 100 million gallons per day (MGD) (2.25, 20, and 175 MGD peak wet weather flow, respectively). The cost estimates ranged from \$410,000 to \$445,000 for systems treating 1 MGD. The annual

operation and maintenance (O&M) costs for chlorine disinfection include power consumption, chemicals and supplies, miscellaneous equipment repairs, and personnel costs. The study also states that requirements associated with the Uniform Fire Code can add more than \$200,000 to chlorination costs.

To make the cost estimations for equipment, installation, and O&M more manageable, the department categorized facilities into similar groups by design flow. The use of either chlorination or an ultraviolet disinfection system was determined according to the size of a facility's design flow in MGD. The determination of the appropriate equipment needed for each category was based on peak flow. Peak flows were calculated from the average flow using standard engineering factors. (See **Appendix D** of the WQS Regulatory Impact Report)

These calculations assume all wastewater facilities that are not currently disinfecting, and located within two (2) miles of a classified water body, will be required to disinfect their effluent. In addition, it was assumed that those facilities currently monitoring bacteria levels are in fact disinfecting their effluent. These calculations do not take into account the cost to future facilities that do not presently have an operating permit. Additionally, the cost estimate calculations assume that most mechanical facilities will use ultraviolet disinfection while lagoon systems will use chlorination. Therefore, it was also assumed that mechanical facilities would not need additional filtration since their effluent would be of high quality. The cost of dechlorination was calculated for facilities that were anticipated to add chlorine disinfection.

Assumptions for the ultraviolet (UV) disinfection system costs include

- a) Fifty-eight (58) arc UV lamps,
- b) UV lamp replacement once per year,
- c) Twenty-five percent (25%) engineering contingency,
- d) One (1) UV kilowatt (kW) equals thirty-seven (37) lamps per one (1.0) million gallons per day (MGD),
- e) Number of lamps based on peak flows,
- f) Cost for constructing a building approximately equal the cost of lamps for WWTP using less than 100 lamps,
- g) Cost for constructing a building approximately seventy-five percent (75%) the cost of lamps for WWTP using more than 100 lamps, and
- h) Number and cost of UV lamps include redundancy and additional spare lamps.

Assumptions for the Chlorine (Cl) disinfection system costs include

- a) Twenty-five percent (25%) engineering contingency,
- b) Chlorine dose based on peak flows, and
- c) Ten milligrams per liter (10 mg/L) dosing concentration.

For facilities with a design flow of less than or equal to 1.0 MGD, tablet chlorination will be used. Gas chlorination is assumed for design flows of greater than 1.0 MGD.

Addition assumptions for facility size include

- a) Those facilities with a design flow of less than or equal to 0.05 MGD would have an average flow of 0.036 MGD and a peak flow of 0.144 MGD (peak factor of 4);
- b) Those facilities with a design flow of greater than 0.05 MGD but less than or equal to 1.0 MGD would have an average flow of 0.255 MGD and a peak flow of 0.894 MGD (peak factor of 3.5);
- c) Those facilities with a design flow of greater than 1.0 MGD but less than or equal to 20.0 MGD would have an average flow of 3.6 MGD and a peak flow of 10.81 MGD (peak factor of 3); and
- d) Those facilities with a design flow of greater than 20.0 MGD would have an average flow of 91.4 MGD and a peak flow of 228.4 MGD (peak factor of 2.5).

Implementation

The department is proposing an implementation schedule for permitted facilities to comply with the new rules. Such a schedule will allow impacted facilities time to: 1) install necessary equipment, 2) conduct a scientific study to determine if disinfection is required to protect WBCR, or 3) conduct a Use Attainability Analysis (UAA) to determine if a water body does not support WBCR. The effect such a schedule would have on costs is discussed in the Fiscal Note prepared for the proposed amendments to the Effluent Rule (10 CSR 20-7.015).

Analytical testing cost

The frequency for analytical testing of facilities is specific to each permit that would be affected by the WBCR designation. It is assumed that facilities of similar size and type will most likely require similar monitoring frequency.

Facilities will not be required to test for both fecal coliform and *E. coli*. The draft regulations state that either can be monitored for a period of three years. After that time, entities will be required to monitor only *E. coli*. The transition phase was developed to allow entities and the laboratories time to make the conversion to *E. coli*. Since *E. coli* requires a slightly different method of analysis, additional equipment may need to be acquired. The cost of analysis for fecal coliform and *E. coli* is essentially the same beyond the initial equipment. In addition, since only fecal coliform is presently required, few labs have established costs for effluent *E. coli* testing. Therefore, only the cost of analyzing fecal coliform was used in the calculations.

Additional impacts

Further impacts due to the WBCR use designation may include the potential listing of additional waters on the 303(d) list, which results in the need to prepare Total Maximum Daily Loads (TMDLs). These costs cannot be measured at this time since the number of waters potentially falling into this category is unknown.

Costs to Nonpoint Sources

The amount of bacterial loads attributable to nonpoint sources is not well known. Data from the United States Geological Survey (USGS) and fixed station monitoring suggest that bacterial levels are higher in areas of agricultural use. **Appendix E** of the WQS Regulatory Impact Report contains data on streams that do not receive appreciable amounts of domestic sewage treatment effluent. Higher bacteria levels are evident in streams in the northern

regions of the state where agricultural land uses are more prevalent. Should nonpoint sources be identified as the cause for water quality exceeding bacterial standards, an effort will be required to assist these sources in reducing their contributions. Several incentive-based, non-regulatory programs are currently available to address the sources.

Costs to the General Public

Costs associated with upgrading domestic wastewater treatment facilities are often passed on to the individual users in the form of increased sewer rates. Whether or not sewer rate increases occur and the amount of these increases is determined by each owner of the facility and can not be reasonably predicted.

Economic Benefits Associated with WBCR Use Designation:

Some studies have been completed on the economic value of surface waters and the effect pollution has on these values. Based on a study in New Hampshire (see reference # 37 in Section 2 of the WQS Regulatory Impact Report), many studies have identified swimming, fishing, and boating as top recreational uses of surface water, and therefore important contributors to the water's economic value. A study in Maine estimated that \$1.09 billion in direct recreational expenditures resulted in \$1.7 billion in total economic activity and \$208 million in net economic value per year. Additional value ranging in the hundreds of millions of dollars was also found in other non-recreational uses, such as public drinking water, agricultural, industrial/commercial and lakefront properties.

These values would strongly suggest a correlation between water quality and economic benefits. To make a unbiased comparison between the economic costs mentioned previously and the economic benefits mentioned in the above paragraph, a study must be done on the actual money spent on enjoying water related activities in the specific waters potentially impacted by the discharges from identified facilities. No such analysis was completed because of the significant effort it would involve.

Table I—Biocriteria Reference Locations

Several changes were made to 10 CSR 20-7.031, Table I—Biocriteria Reference Locations due to water withdrawal for irrigation, accessibility limitations, and refinement of selection processes. These proposed changes reflect the loss of several waters as reliable indicators for natural background levels of pollutants. Because the loss of these waters as biocriteria reference streams is not the result of this rule, there is no economic impact (cost or benefit) to report here.

Miscellaneous typographical errors

Through a rulemaking process spelling, grammar, and typographical errors can occur without notice before a rule becomes effective. These simple mistakes are then corrected during the next revision to the rule. For example, the unit of measurement for volatile organics currently is listed as grams per liter (g/L), which was a typographical error. The correct unit of measurement is micrograms per liter (µg/L) and is being proposed as a change. Corrections made in this manner do not change the intent of the regulations. No cost will be associated with this revision.

Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 23—*[Division of Geology and Land Survey]*
Geological Survey and Resource Assessment Division
Chapter 3—Well Construction Code

PROPOSED AMENDMENT

10 CSR 23-3.060 Certification and Registration Reports. The division is amending the division title, adding a new section (5) and renumbering the remaining section.

PURPOSE: The purpose of this amendment is to simplify the procedure for reporting well locations by utilizing Global Positioning System (GPS) readings.

(5) Certification report forms and registration report forms submitted for well construction, well reconstruction, new pump installation, monitoring well construction (see 10 CSR 23-4), heat pump well construction (see 10 CSR 23-5), and test hole (see 10 CSR 23-6) shall include the geographic location of the well, boring or test hole. The geographic location shall have a format in degrees, minutes and seconds for latitude and longitude relative to the North American Datum 1983 (NAD83) geodetic datum. Location accuracy shall be at least one (1) place after the seconds decimal point: i.e., latitude 38° 59' 59.9"N, longitude 94° 01'01.0"W. Devices that can provide such measurements include, but are not limited to, handheld Global Positioning System (GPS) receivers that are wide area augmentation system (WAAS) capable.

[(5)](6) If work is performed by the landowner, following strict requirements under section 256.607, RSMo, [and 10 CSR 23-3.020(7)] the landowner must submit all required forms and fees and is subject to all laws and regulations as if a permitted entity.

AUTHORITY: sections 256.606, 256.614, 256.623 and 256.626, RSMo [Supp. 1991] 2000. Original rule filed April 2, 1987, effective July 27, 1987. Emergency rescission and emergency rule filed Nov. 16, 1993, effective Dec. 11, 1993, expired April 9, 1994. Rescinded and readopted: Filed Aug. 17, 1993, effective March 10, 1994. Amended: Filed March 30, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will cost private entities one hundred fifty thousand dollars (\$150,000) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Department of Natural Resources, Geological Survey and Resource Assessment Division, Bob Archer, PO Box 250, Rolla, MO 65402. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

FISCAL NOTE PRIVATE ENTITY COST

I. RULE NUMBER

Title: 10 – Department of Natural Resources

Division: 23 – Geological Survey and Resource Assessment Division

Chapter: 3 – Well Construction Code

Type of Rulemaking: Proposed Amendment

Rule Number and Name: 10 CSR 23-3.060 – Certification and Registration Reports

II. SUMMARY OF FISCAL IMPACT

Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule:	Classification by types of the business entities which would likely be affected:	Estimate in the aggregate as to the cost of compliance with the rule by the affected entities:
1000	Missouri Permitted Well Industry Contractor Companies	\$150,000

III. WORKSHEET

- Well Industry contractors would be required to purchase a GPS receiver at a cost of about \$100 to \$150 per unit. Maximum cost (1000 companies x \$150/company per GPS unit) is \$150,000. Currently, approximately 20% to 40% of the estimated 1000 permitted contractor companies use GPS receivers. Minimum cost (600 companies x \$100/company per GPS unit) is \$60,000.

IV. ASSUMPTIONS

- The rule is assumed to be in effect in perpetuity.
- The new rule is expected to be effective Sept 1, 2005. The cost for the first full fiscal year is assumed to be \$150,000 or less with subsequent years exhibiting a cost less than \$4500 in the aggregate (30 new GPS units purchased per year)..
- GPS technology allows determination of location by an easier, quicker, less costly, and more accurate method than determining legal location. Finding legal description of property requires specific real estate tax information, courthouse visitation, or purchases of topographic or county plat maps. Location of wells and boreholes by GPS necessitates purchase of an inexpensive GPS receiver. Location by legal description provide accuracy to within 10 acres, GPS locations are determined to within 20 feet.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 5—Conduct of Gaming**

PROPOSED AMENDMENT

11 CSR 45-5.190 Minimum Standards for Electronic Gaming Devices. The commission is amending sections (1)–(3).

PURPOSE: This rule is being amended to update the rule to accommodate changes in gaming industry technology and to ensure compatibility of electronic gaming devices and systems.

(1) Electronic gaming devices must *[not be set to]* pay out **not less than eighty percent (80%) of all wagers during the expected lifetime of the game, including bonus games.** Electronic gaming devices that may be affected by player skill must meet this standard when using a method of play that will provide the greatest return to the player over a period of continuous play. **The probability of obtaining the maximum payout on any electronic gaming device shall not be greater than one (1) in fifty (\$50) million.**

(2) Electronic gaming devices shall—

(A) Be subject to testing prior to implementation within the state and at any time thereafter by the commission or an independent testing laboratory designated by the commission, and subject to review and approval by the commission for adherence to the regulatory and technical standards adopted or approved by the commission;

[(A)](B) Be controlled by a microprocessor or the equivalent in such a manner that the game outcome is completely controlled by the microprocessor or equivalent device as approved by the commission;

[(B)](C) *[Be]* Utilize a communication protocol that is compatible with and interfaces with the communication protocol used by all on-line computerized data monitoring, data management, and ticket validation systems approved by the commission for use at licensed gaming establishments. Electronic gaming devices and any peripheral equipment or devices, including the equipment's or device's operating systems and software, shall, prior to approval for use within the state, be tested for inter-operability by a commission-approved independent testing laboratory to ensure compliance with this subsection. Once approved, no modifications shall be made to said gaming devices, peripheral equipment, systems, or software that would cause them to be non-compliant with this subsection;

[(C)](D) Have a logic area in a separate locked internal enclosure within the device *[for the circuit board containing the EPROM (erasable, programmable, read-only memory, that is, computer chips that store memory)]* which houses electronic components that have the potential to significantly influence the operation of the gaming device. Electronic components required to be housed within the logic area include computer processor units (CPUs) and all critical program storage media;

(E) After January 1, 2006, clearly and accurately display, via Attendant Menu, the identification number and version, as applicable, of all software and firmware contained within the electronic gaming device and its top box which are involved in game communication or the operation and calculation of game play, game display, or game result determination;

[(D)](F) Be able to recover to the state the gaming devices were in immediately prior to the occurrence of a program interruption or power loss and continue a game with no data loss *[after a power failure;]*. Upon program resumption, the following procedures must be performed:

1. Any communications to an external device shall not begin until the program resumption routine, including self-tests, is completed successfully;

2. Gaming device control programs test themselves for possible corruption due to failure of the program storage media; and

3. The integrity of all critical memory is checked;

[(E)](G) Have *[previous and current]* game data recall **capable of providing all information required to fully reconstruct at least the last five (5) games, retrievable upon the operation of an external key-switch or other secure method not available to the player. The five (5) game recall shall reflect bonus rounds in their entirety;**

[(F)](H) Have a random selection process that must not produce detectable patterns of game elements or detectable dependency upon any previous game outcome, the amount wagered, or upon the style or method of play;

[(G)](I) Clearly **and accurately** display applicable rules of play and the *[payout schedule]* **award that will be paid to the player when the player obtains a specific win, including mystery awards. The displays shall clearly indicate whether awards are designated in denominational units, currency, credits or some other unit. All payable information must be able to be accessed by a player prior to the player committing to a wager;**

[(H)](J) Display an accurate representation of each game outcome. After selection of the game outcome, the electronic gaming device must not make a variable secondary decision which affects the result shown to the player;

[(I)](K) Have a complete set of nonvolatile meters including *[tokens/amount-in, [tokens/amount-out, [tokens] amount dropped, total [credits] amount wagered, total [credits] amount won, number of games played and jackpots paid;*

[(J)](L) Have available for random selection at the initiation of each play, each possible permutation or combination of game elements which produce winning or losing game outcomes; and

[(K)](M) Not automatically alter pay-tables or any function of the electronic gaming device based on internal computation of the hold percentage.

(3) When an electronic gaming device is unable to *[drop sufficient tokens for]* **automatically provide** payment of jackpots requiring the payment to be made by the riverboat, jackpot payout tickets must be prepared containing the following information:

(E) **The denomination of the game played;**

[(E)](F) The amount of the jackpot payout in written and numeric form;

(G) **W2G indication, if applicable;**

(H) **Total before taxes and taxes withheld, if applicable;**

(I) **Amount to patron;**

(J) **Total amount played and game outcome of award, if applicable;**

(K) **Nonvolatile meter readings;**

[(F)](L) The signature of a holder of a Class A license or the licensee employee making the payment, **as approved by the commission;** and

[(G)](M) A signature of at least one (1) other riverboat gaming operation employee attesting to the accuracy of the form.

AUTHORITY: sections 313.004, 313.800 and 313.805, RSMo 1994. Emergency Rule filed Sept. 1, 1993, effective Sept. 20, 1993, expired Jan. 17, 1994. Emergency rule filed Jan 5, 1994, effective Jan. 18, 1994, expired Jan. 30, 1994. Original rule filed Sept. 1, 1993, effective Jan. 31, 1994. Amended: Filed June 25, 1996, effective Feb. 28, 1997. Amended: Filed May 13, 1998, effective Oct. 30, 1998. Amended: Filed March 31, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will cost private entities more than five hundred dollars (\$500) in the aggregate.

*NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Gaming Commission, PO Box 1847, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the **Missouri Register**. A public hearing is scheduled for June 9, 2005 at 10 a.m., in the Missouri Gaming Commission's Hearing Room, 3417 Knipp Drive, Jefferson City, Missouri 65109.*

**FISCAL NOTE
PRIVATE COST**

I. RULE NUMBER

Rule Number and Name:	11 CSR 45-5.190 – Minimum Standards for Electronic Gaming Devices
Type of Rulemaking:	Proposed Amendment

II. SUMMARY OF FISCAL IMPACT

Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule:	Classification by types of the business entities which would likely be affected:	Estimate in the aggregate as to the cost of compliance with the rule by the affected entities:
Twelve	Gaming Device Manufacturers	\$157,500 per year

II. WORKSHEET

The proposed amendment would necessitate 100-150 main programs be tested annually. Testing requires approximately 4 hours per system per main program; there are three systems in use within the state; therefore, approximately 12 hours of testing time per main program will be required. Testing costs are approximately \$105 per hour. Aggregate annual costs would approximate:

100-150 main programs x 12 hours x \$105 per hour = \$126,000 - \$198,000; therefore, the median cost of \$157,500 was used.

III. ASSUMPTIONS

Gaming Laboratories International, Inc. (GLI), the independent testing laboratory utilized by the Missouri Gaming Commission (MGC) to test and certify all gaming device software for use in licensed riverboat gambling operations pursuant to Chapter 313 RSMo, and 11 CSR 45, advises 1,000+ main programs are certified annually for the MGC. GLI estimates that some 100+ of the main programs would require system compatibility and interoperability testing under the proposed amendment to 11 CSR 45-5.190.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 5—Conduct of Gaming**

PROPOSED AMENDMENT

11 CSR 45-5.210 Integrity of Electronic Gaming Devices. The commission is amending section (1) and adding section (2).

PURPOSE: This rule is being amended to update the rule to accommodate changes in gaming industry technology, establish standards for bonus feature rules of play and bill validators, and require supplier licensees provide notice of device malfunctions or anomalies.

(1) Electronic gaming devices shall—

(A) *[Be cashless in operation, and as such, must]* **As authorized by the commission**, accept only electronic cards, tickets, coupons, credits, currency, or tokens as wagers;

(D) Contain a surge protector on the line that feeds power to the electronic gaming device. *[The]* **A battery back-up or an equivalent shall be installed on the device** for the electronic meters *[must]* **and shall** be capable of accurately maintaining all information required for *[one hundred eighty (180)]* **thirty (30) days** after power is discontinued from the electronic gaming device. The battery back-up shall be kept within the locked *[circuit board compartment]* **logic area**;

(E) Have a secure and dedicated data protocol link to any central computer monitoring system, which shall be a closed system inaccessible to communication with any other computer, device or mode of telecommunications **unless otherwise approved by the commission**;

(G) Be designed so that it shall not be adversely affected by **magnetic, electro-magnetic, electro-static** *[discharge]* or *[other electromagnetic]* **radio frequency** interference;

(H) **If designed to accept physical tokens, h/H**ave at least one (1) electronic token acceptor. Token acceptors must be designed to accept designated tokens and reject others. The token *[receiver]* **acceptor** on an electronic gaming device must be designed to prevent the use of cheating methods such as slugging, stringing, *[or]* spooning, **the insertion of foreign objects, and other manipulation**. All token acceptors are subject to approval by the commission. Tokens accepted but which are inappropriate token-ins must be **rejected to the coin tray**, returned to the player by activation of the hopper **or printer** or credited toward the next play of the electronic gaming device. The electronic gaming device control program must be capable of handling rapidly fed tokens **or simultaneously fed tokens** so that occurrences of inappropriate token-ins are prevented. **Token acceptors shall be capable of determining the direction and speed of token travel in the receiver and any improper direction or speed shall result in the electronic gaming device going into an error condition**;

(I) *[Not b/]*Be designed so the internal space of the electronic gaming device is **not** readily accessible when the front door is both closed and locked;

(J) Have *[circuit boards, EPROMS (erasable, programmable, read-only memory, that is, computer chips that store memory) and battery backup in a]* its locked **logic area(s)** within the electronic gaming device*], which is to be]* **and the critical program storage media housed therein sealed with** *[evidence tape]* **commission security seals**. The *[evidence tape]* **security seals** must be affixed by an authorized commission agent and must include the date, signature **or initials** and identification number of the agent. *[This tape]* **These seals may only be broken or removed by an authorized commission agent**;

(K) Have a *[token compartment]* **hopper** contained in a locked area within *[or attached to]* the electronic gaming device if designed to dispense tokens. The electronic gaming device control program shall ensure the diverter directs tokens to the hopper **or, in the alternative, to the drop compartment when the token level in the hopper makes contact with the diverter's hopper-full sensor probe**. Hopper-less gaming devices shall always divert tokens to the drop compartment;

(L) *[Not c/]*Contain *[any]* **no hardware or software** switches that alter the pay-tables or payout percentages in its operation, **other than as approved by the commission and which require access to a locked logic area** *Hardware switches may be installed to control graphic routines, speed of play, and sound*;

(M) *[Contain]* **Have** an *[unremovable]* identification plate with the following information *[appearing on]* **securely affixed by the manufacturer** to the exterior of the electronic gaming device cabinet:

1. Manufacturer;
2. Serial Number; *[and]*
3. Model Number; **and**
4. **Date of manufacture**;

(N) Contain the rules of play for each electronic gaming device displayed on the face or screen. *[No r/]*Rules shall be *[in]* complete, *[confusing or misleading]* **clear and easily understood**. Each electronic gaming device must also display the credits wagered and the credits awarded for the occurrence of each possible winning combination based on the number of credits wagered. All information required by this subsection must be kept under glass or another transparent substance and at no time may stickers or other removable items be placed over this information*;/*. **Additionally**:

1. **If the game contains a bonus feature including a game within a game, the following rules shall be met**:

A. **The game shall display clearly to the player which game rules apply to the current game state**;

B. **If the game requires obtaining several events or symbols toward a bonus feature, the number of events or symbols needed to trigger the bonus feature shall be indicated along with the number of events or symbols collected at any point**;

C. **The game shall not adjust the likelihood of a bonus feature occurring based on the history of prizes obtained in previous games**;

D. **If a bonus game is triggered after accruing a certain number of events or symbols or combination of events or symbols of a different kind, the probability of obtaining like events or symbols shall not decrease as the game progresses**; and

E. **The game display shall make it clear to the player that the game is in a bonus mode**;

2. **If a bonus feature requires extra credits to be wagered and the game accumulates all winnings to a temporary win meter, the game shall**:

A. **Provide a means where winnings on the temporary meter can be bet to allow for instances where the player has an insufficient credit meter balance to complete the feature**;

B. **Transfer all credits on the temporary meter to the credit meter upon completion of the feature**; and

C. **Provide the player an opportunity not to participate**;

3. **If the game offers a menu of games to a player**:

A. **The methodology employed by a player to select and discard a particular game for play shall be clearly displayed on the gaming device and easily followed**;

B. **The gaming device shall be able to clearly display to the player, at the player's request, all games, game rules and paytables before the player must commit to playing any game**;

C. **The player shall at all times be made aware of which game has been selected for play and is being played, as applicable**;

D. The player shall not be forced to play a game just by selecting that game. The player shall be able to return to the main menu;

E. It shall not be possible to start a new game before the current play is completed and all game meters have been updated;

F. The set of games offered to the player for selection or the payable can be changed only by a secure method approved by the commission, which includes turning on and off games available for play through a video screen interface; and

G. No changes to the set of games offered to the player for selection or to the payable are permitted while there are credits on the player's credit meter or while a game is in progress;

(O) *[Have equipment that enables the electronic gaming device to communicate]* Be capable of communication with a central computer system accessible to the commission, using an industry standard data protocol format approved by the commission;

(Q) **If designed to accept tokens, */H/*have attached a drop bucket housed within a locked compartment separate from any other compartment of the electronic gaming device to collect and retain all tokens diverted to the drop compartment;**

(R) Be capable of detecting and displaying the following error conditions which an attendant *[may]* must clear:

1. Token-in jam;
2. Token-out jam;
3. Hopper empty or time-out;
4. Program error;
5. Hopper runaway or extra token paid out;
6. Reverse token-in;
7. Reel error; and
8. Door open;

(V) Have a mechanical, electromechanical or electronic device that automatically precludes a player from operating the electronic gaming device after a jackpot requiring a manual payout and requires an attendant to reactivate the electronic gaming device; *[and]*

(W) Be designed in such a manner that the microprocessor or equivalent which operates the electronic gaming device is assigned a unique identification code, and that the *[EPROM code]* **critical program storage media** is subject to *[comparison]* authentication via *[cobotron analysis or other method.]* an external third-party verification tool approved by the commission;

(X) **If designed to accept currency, tickets, or coupons, have a bill validator-acceptor device into which a patron may insert such items in exchange for an equal value of electronic gaming device credits. Electronic gaming devices containing bill validator-acceptor devices:**

1. May accept any single denomination or combination of denominations of the following United States currency:

- A. One dollar (\$1) bills;
- B. Five dollar (\$5) bills;
- C. Ten dollar (\$10) bills;
- D. Twenty dollar (\$20) bill;
- E. Fifty dollar (\$50) bill; and
- F. One hundred dollar (\$100) bills;

2. May accept tickets and coupons in compliance with established commission regulations;

3. Shall have software programs that enable the validator-acceptor to differentiate between genuine and counterfeit bills to a high degree of accuracy;

4. Shall be equipped with a bill validator-acceptor drop box to collect the currency, tickets, and or coupons inserted and accepted by the bill validator-acceptor. The bill validator-acceptor drop box shall:

A. Be housed in a locked compartment separate from any other compartment of the electronic gaming device;

B. Be accessible by a key that will access only the bill validator-acceptor drop box and no other area of the electronic gaming device;

C. Have a slot opening through which currency, tickets, or coupons can be inserted;

D. Be readily identifiable to the electronic gaming device from which it was removed; and

E. Have a separate lock to secure access to the contents of the drop box, the key to which shall not access any other area of the electronic gaming device; and

5. Shall maintain sufficient electronic metering to report the:

- A. Total monetary value of all items accepted;
- B. Total number of all items accepted;
- C. Number of bills accepted for each bill denomination;
- D. Number of items accepted for each item type; and
- E. The last five (5) items accepted; and

(Y) Have a tower light or candle located conspicuously on top of the gaming device that automatically illuminates when a player has won an amount or is redeeming credits the device cannot automatically pay, an error condition has occurred, or a call attendant condition has been initiated by the player. This requirement may be substituted for a single tower light for bar-top style devices, provided each such device also has an audible alarm.

(2) Any electronic gaming device manufacturer holding a supplier license under the provisions of 11 CSR 45-4 et seq. shall notify the commission of any malfunction or anomaly affecting the integrity or operation of devices or systems provided under the scope of such license regardless of the gaming jurisdiction in which the malfunction or anomaly occurred or was discovered. The notification shall occur within twenty-five (24) hours of the supplier licensee being apprised of the malfunction or anomaly and shall be in a format approved by the commission.

*AUTHORITY: sections 313.004, 313.800 and 313.805, RSMo [Supp. 1994] 2000. * Emergency rule filed Sept. 1, 1993, effective Sept. 20, 1993, expired Jan. 17, 1994. Emergency rule filed Jan. 5, 1994, effective Jan. 18, 1994, expired Jan. 30, 1994. Original rule filed Sept. 1, 1993, effective Jan. 31, 1994. Amended: Filed May 13, 1998, effective Oct. 30, 1998. Amended: Filed March 31, 2005.*

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Gaming Commission, PO Box 1847, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. A public hearing is scheduled for June 9, 2005 at 10:00 a.m., in the Missouri Gaming Commission's Hearing Room, 3417 Knipp Drive, Jefferson City, Missouri.*

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 9—Internal Control System**

PROPOSED AMENDMENT

11 CSR 45-9.030 Minimum Internal Control Standards. The commission is amending section (1).

PURPOSE: The purpose of the proposed amendment is to amend sections A, B, D, E, R, S, T, Forward and the Table of Contents of Appendix A.

PUBLISHER'S NOTE: The secretary of state has determined that the publication of the entire text of the material which is incorporated by reference as a portion of this rule would be unduly cumbersome or expensive. Therefore, the material which is so incorporated is on file with the agency which filed this rule. Any interested person may view this material at the agency's headquarters at a cost not to exceed the actual cost of copy reproduction. The entire text of the rule is printed here. This note refers only to the incorporated by reference material. This incorporated material (Appendix A) may also be accessed at <http://www.mgc.dps.mo.gov>.

(1) The commission shall adopt and publish minimum standards for internal control procedures that in the commission's opinion satisfy 11 CSR 45-9.020, as set forth in Appendix A, which has been incorporated by reference herein, as published by the Missouri Gaming Commission, 3417 Knipp Dr., PO Box 1847, Jefferson City, MO 65102. This rule does not incorporate any subsequent amendments or additions.

AUTHORITY: sections 313.004, 313.800 and 313.805, RSMo 2000. Emergency rule filed Sept. 1, 1993, effective Sept. 20, 1993, expired Jan. 17, 1994. Emergency rule filed Jan. 5, 1994, effective Jan. 18, 1994, expired Jan. 30, 1994. Original rule filed Sept. 1, 1993, effective Jan. 31, 1994. For intervening history, please consult the *Code of State Regulations*. Amended: Filed March 31, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Gaming Commission, PO Box 1847, 3417 Knipp Drive, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. A public hearing is scheduled for June 9, 2005, at 10:00 a.m. in the Commission hearing room, 3417 Knipp Drive, Jefferson City, Missouri.

Title 12—DEPARTMENT OF REVENUE

Division 10—Director of Revenue

Chapter 2—Income Tax

PROPOSED RESCISSION

12 CSR 10-2.195 Special Needs Adoption Tax Credit. This rule established the requirements and procedures for claiming the tax credit for a special needs adoption as provided in sections 135.325–135.339, RSMo.

PURPOSE: This rule is being rescinded because it is superseded by another rule.

AUTHORITY: section 135.339, RSMo 1994. Original rule filed, Aug. 2, 1988, effective Dec. 11, 1988. Rescinded: Filed March 29, 2005.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Department of Revenue, Office of Legislation and Regulations, PO Box 629, Jefferson City, MO 65105. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

Title 13—DEPARTMENT OF SOCIAL SERVICES

Division 70—Division of Medical Services

Chapter 10—Nursing Home Program

PROPOSED AMENDMENT

13 CSR 70-10.015 Prospective Reimbursement Plan for Nursing Facility Services. The division is adding subsection (20)(D) and section (21).

PURPOSE: This amendment provides for the calculation of nursing facility Medicaid per diem rates effective for dates of service beginning April 1, 2005 to revise the rebase provisions to update the databank and to provide for a minimum utilization adjustment of eighty-five percent (85%) for the administration and capital cost components. It also provides for the calculation of rates for SFY 2006.

(20) Rebasing of Nursing Facility Rates.

(D) Effective for dates of service beginning April 1, 2005, the rebased rates for SFY 2005 shall be calculated as follows:

1. The audited 2001 cost report data shall continue to be used to develop the databank and to determine each nursing facility's rebased rate. The audited 2001 cost report data; the licensed beds data; and the bed equivalencies data used to determine each nursing facility's final rate paid for dates of services effective July 1, 2004 shall be deemed final. This finalized data will be used as the base to calculate the rates effective April 1, 2005. The following items have been revised for the April 1, 2005 rate calculation:

A. A new databank shall be developed using the audited 2001 cost report data set forth above in paragraph (20)(D)1. for nursing facilities enrolled in the Medicaid program as of March 15, 2005 in accordance with subsection (4)(S).

B. The administration and capital cost components shall be adjusted for minimum utilization at eighty-five percent (85%) occupancy, rather than as set forth in paragraph (20)(A)6.–7.

(21) Per Diem Rate Calculation Effective for Dates of Service Beginning July 1, 2005. Effective for dates of service beginning July 1, 2005, the rebase provisions set forth in section (20) shall not apply. Effective for dates of service beginning July 1, 2005, the per diem rates shall be calculated using the same principles and methodology as detailed throughout sections (1)–(19) of this regulation, except that the data indicated in this section (21) shall be used.

(A) The audited 2001 cost report data shall be used to develop the databank and to determine each nursing facility's per diem rate. The audited 2001 cost report data; the licensed beds data; and the bed equivalencies data used to determine each nursing facility's final rate paid for dates of services effective July 1, 2004 shall be deemed final. This finalized data will be used as the base to calculate the rates effective July 1, 2005.

1. A new databank shall be developed using the audited 2001 cost report data set forth above in subsection (21)(A) for nursing facilities enrolled in the Medicaid program as of March 15, 2005 in accordance with subsection (4)(S).

2. The costs in the databank shall be trended using the second quarter indices from the First Quarter 2004 publication of the Health-Care Cost Review using the "CMS Nursing Home without Capital Market Basket" table. The costs shall be trended for the years following the cost report year, up to and including SFY 2005. The trends applied to the 2001 cost report data include the following:

A. 2002:2 = 3.2%

B. 2003:2 = 3.4%

C. 2004:2 = 2.3%

D. 2005:2 = 2.3%

E. The total trend applied to the 2001 cost report data is 11.2%.

3. The medians and ceilings shall be recalculated, based upon the trended costs included in the new databank.

4. The costs, beds, days, renovations/major improvements, loans, etc. from each facility's cost report included in the databank shall be used to calculate each nursing facility's rate. The costs reflected in each facility's cost report shall be trended as detailed above in paragraph (21)(A)2.

(B) The asset value used to determine the capital cost component, as set forth in subsection (11)(D), shall be based upon the 2004 publication of the RS Means Building Construction Cost Data. The asset value is determined by using the median, total cost of construction per bed for nursing homes from the "S.F., C.F., and % of Total Costs" table and adjusting it by the total weighted average index for Missouri cities from the "City Cost Indexes" table. The asset value shall be forty-one thousand seven hundred twenty-seven dollars and fifty cents (\$41,727.50).

(C) The age of the beds shall be calculated from 2004.

(D) The interest rate used in determining the capital cost component and working capital allowance, as set forth in subsections (7)(F), (11)(D), and (11)(E), shall be the prime rate as reported by the Federal Reserve and published in the *Wall Street Journal* on the first business day of June 2004 plus two percent (2%). The interest rate shall be the prime rate of four percent (4%), as published June 1, 2004, plus two percent (2%) for a total of six percent (6%).

(E) The rate of return used in determining the capital cost component, as set forth in subsection (11)(D), shall be the interest (i.e., coupon) rate for the most recent issue of thirty (30)-year Treasury Bonds in effect on the first business day of June 2004 plus two percent (2%). The rate of return shall be the thirty (30)-year Treasury Bond rate of 5.375%, effective June 1, 2004, plus two percent (2%) for a total of 7.375%.

(F) The administration and capital cost components shall be adjusted for minimum utilization at eighty-five percent (85%) occupancy.

(G) The high volume adjustment shall continue to be that determined for SFY 2004. The 2001 cost report shall continue to be used rather than the cost report ending in the third calendar year prior to the state fiscal year as set forth in part (13)(B)10.A.(I), and the remaining criteria and calculations set forth in paragraph (13)(B)10. shall continue to be that used in the SFY 2004 calculation. Therefore, facilities receiving the high volume adjustment for SFY 2004 shall continue to receive that same high volume adjustment which will be included in its rate effective for dates of service beginning July 1, 2005.

(H) Rate adjustment requests for replacement beds, additional beds, and/or extraordinary circumstances as set forth in paragraphs (13)(B)6., (13)(B)7. and (13)(B)8. are no longer allowed.

(I) The rates effective for dates of service beginning July 1, 2005 shall be determined, as set forth below:

1. A preliminary rate for July 1, 2005 shall be calculated using the same principles and methodology as detailed throughout sections (1)-(19) of this regulation and the updated items detailed above in subsections (21)(A)-(H).

2. The total increase resulting from the July 1, 2005 preliminary rate calculation shall be calculated as follows:

A. Each facility's rate as of June 30, 2004, less the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)9., shall be compared to the July 1, 2005 preliminary rate calculation.

(I) The high volume adjustment, if applicable, and the NFRA shall not be included in the June 30, 2004 rate or the July 1, 2005 preliminary rate for comparison purposes in determining the total increase.

(II) The high volume adjustment, if applicable, and the current NFRA shall be added to the rate determined below in subparagraphs (21)(I)2.B. and (21)(I)2.C.

B. If the July 1, 2005 preliminary rate is greater than the June 30, 2004 rate including the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)9., the difference between the two (2) shall represent the total increase. Effective for dates of service beginning July 1, 2005, one-third (1/3) of the total increase shall be added to the facility's rate as of June 30, 2004 including the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)9. The high volume adjustment, if applicable, and the current NFRA shall be added to that total and shall be the facility's prospective rate for dates of service beginning July 1, 2005.

C. If the July 1, 2005 preliminary rate is less than the June 30, 2004 rate including the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)9., the facility's prospective rate shall be the facility's rate as of June 30, 2004 including the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)9. plus the high volume adjustment, if applicable, and the current NFRA.

(J) Interim rates and rates for hospital-based facilities that do not submit cost reports due to having less than one thousand (1,000) patient days for Medicaid residents shall also be recalculated and increases given as set forth above.

AUTHORITY: sections 208.153, 208.159 and 208.201, RSMo 2000. Emergency rule filed Dec. 21, 1994, effective Jan. 1, 1995, expired April 30, 1995. Emergency rule filed April 21, 1995, effective May 1, 1995, expired Aug. 28, 1995. Original rule filed Dec. 15, 1994, effective July 30, 1995. For intervening history, please consult the Code of State Regulations. Emergency amendment filed March 21, 2005, effective April 1, 2005, expires Sept. 27, 2005. Amended: Filed March 29, 2005.

PUBLIC COST: This proposed amendment will cost state agencies or political subdivisions approximately sixty thousand dollars (\$60,000) for SFY 2005 and three hundred sixty thousand dollars (\$360,000) for SFY 2006.

PRIVATE COST: This proposed amendment will result in a reduction of Medicaid revenues to private entities of approximately \$1,605,000 for SFY 2005 and \$9,630,000 for SFY 2006.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Department of Social Services, Division of Medical Services, 615 Howerton Court, Jefferson City, MO 65109. To be considered, comments must be received within thirty (30) days after publication of

this notice in the Missouri Register. If to be hand-delivered, comments must be brought to the Division of Medical Services at 615 Howerton Court, Jefferson City, Missouri. No public hearing is scheduled.

FISCAL NOTE

PUBLIC COST

I. RULE NUMBER

Rule Number and Name:	13 CSR 70-10.015 Prospective Reimbursement Plan for Nursing Facility Services
Type of Rulemaking:	Proposed Amendment

II. SUMMARY OF FISCAL IMPACT

Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule:	Classification of the business entities which would likely be affected:	Estimate in the aggregate as to the cost of compliance with the rule by the affected entities:
500	Nursing facilities	Annual estimated cost: SFY 2005 = \$60,000 SFY 2006 = \$360,000

III. WORKSHEET

SFY 2005:

Estimated Paid Days: SFY 2005 *	1,500,000
x Average Rate Increase	\$ 0.04
Total Estimated Impact: SFY 2005	<u>\$ 60,000</u>

SFY 2006:

Estimated Medicaid Days: SFY 2006	9,000,000
x Average Rate Increase **	\$ 0.04
Total Estimated Impact: SFY 2006	<u>\$ 360,000</u>

IV. ASSUMPTIONS

Effective for dates of service beginning April 1, 2005, nursing facility rebased rates are calculated using:

- Updated databank – Resulted in an increase in rates due to an increase in the Ancillary ceiling, as reflected in this Public Cost Fiscal Note.
- 85% minimum utilization for administration and capital cost components – Resulted in a decrease in rates. The decrease is reflected in the Private Cost Fiscal Note.

- * There are approximately 9,000,000 Medicaid days paid for nursing facility services annually. For SFY 2005, the annual level of paid days is prorated over the 2 months remaining in SFY 2005 in which the increased payment will be made:

$$9,000,000 / 12 \text{ months} \times 2 \text{ months of increased payments in SFY 05} = 1,500,000$$

- ** The impact for SFY 2006 is not an additional increase in rates from the April 1, 2005 rates. It reflects the annual impact of the increase for SFY 2006.

FISCAL NOTE**PRIVATE COST****I. RULE NUMBER**

Rule Number and Name:	13 CSR 70-10.015 Prospective Reimbursement Plan for Nursing Facility Services
Type of Rulemaking:	Proposed Amendment

II. SUMMARY OF FISCAL IMPACT

Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule:	Classification of the business entities which would likely be affected:	Estimate in the aggregate as to the cost of compliance with the rule by the affected entities:
500	Nursing facilities	Annual estimated cost: SFY 2005 = \$1,605,000 SFY 2006 = \$9,630,000

III. WORKSHEET

SFY 2005:

Estimated Paid Days: SFY 2005 *	1,500,000
x Average Rate Decrease	(\$1.07)
Total Estimated Impact: SFY 2005	<u>\$1,605,000</u>

SFY 2006:

Estimated Medicaid Days: SFY 2006	9,000,000
x Average Rate Decrease **	(\$1.07)
Total Estimated Impact: SFY 2006	<u>\$9,630,000</u>

IV. ASSUMPTIONS

Effective for dates of service beginning April 1, 2005, nursing facility rebased rates are calculated using:

- Updated databank – Resulted in an increase in rates due to an increase in the Ancillary ceiling. The increased cost is reflected in the Public Cost Fiscal Note.
- 85% minimum utilization for administration and capital cost components – Resulted in a decrease in rates, as reflected in this Private Cost Fiscal Note.

While nursing facilities will not be disbursing any funds as a result of this proposed amendment, they will not be receiving this amount of revenue from the Missouri Medicaid program.

- * There are approximately 9,000,000 Medicaid days paid for nursing facility services annually. For SFY 2005, the annual level of paid days is prorated over the 2 months remaining in SFY 2005 in which the decreased payment will be made:
 $9,000,000 / 12 \text{ months} \times 2 \text{ months of decreased payments in SFY 05} = 1,500,000$

- ** The impact for SFY 2006 is not an additional decrease in rates from the April 1, 2005 rates. It reflects the annual impact of the decrease for SFY 2006.

**Title 13—DEPARTMENT OF SOCIAL SERVICES
Division 70—Division of Medical Services
Chapter 10—Nursing Home Program**

PROPOSED AMENDMENT

13 CSR 70-10.080 Prospective Reimbursement Plan for HIV Nursing Facility Services. The division is adding subsection (20)(C) and section (21).

PURPOSE: This amendment provides for the calculation of HIV nursing facility Medicaid per diem rates effective for dates of service beginning April 1, 2005 to revise the rebase provisions to update the databank and to provide for a minimum utilization adjustment of eighty-five percent (85%) for the administration and capital cost components. It also provides for the calculation of rates for SFY 2006.

(20) Rebasing of HIV Nursing Facility Rates.

(C) Effective for dates of service beginning April 1, 2005, the rebased rates for SFY 2005 shall be calculated as follows:

1. The audited 2001 cost report data shall continue to be used to develop the databank and to determine each nursing facility's rebased rate. The audited 2001 cost report data; the licensed beds data; and the bed equivalencies data used to determine each nursing facility's final rate paid for dates of services effective July 1, 2004 shall be deemed final. This finalized data will be used as the base to calculate the rates effective April 1, 2005. The following items have been revised for the April 1, 2005 rate calculation:

A. A new databank shall be developed using the audited 2001 cost report data set forth above in paragraph (20)(C)1. for nursing facilities enrolled in the Medicaid program as of March 15, 2005 in accordance with subsection (4)(S).

B. The administration and capital cost components shall be adjusted for minimum utilization at eighty-five percent (85%) occupancy, rather than as set forth in paragraphs (20)(A)6.-7.

(21) Per Diem Rate Calculation Effective for Dates of Service Beginning July 1, 2005. Effective for dates of service beginning July 1, 2005, the rebase provisions set forth in section (20) shall not apply. Effective for dates of service beginning July 1, 2005, the per diem rates shall be calculated using the same principles and methodology as detailed throughout sections (1)-(19) of this regulation, except that the data indicated in this section (21) shall be used.

(A) The audited 2001 cost report data shall be used to develop the databank and to determine each nursing facility's per diem rate. The audited 2001 cost report data; the licensed beds data; and the bed equivalencies data used to determine each nursing facility's final rate paid for dates of services effective July 1, 2004 shall be deemed final. This finalized data will be used as the base to calculate the rates effective July 1, 2005.

1. A new databank shall be developed using the audited 2001 cost report data set forth above in subsection (21)(A) for nursing facilities enrolled in the Medicaid program as of March 15, 2005 in accordance with subsection (4)(S).

2. The costs in the databank shall be trended using the second quarter indices from the First Quarter 2004 publication of the Health-Care Cost Review using the "CMS Nursing Home without Capital Market Basket" table. The costs shall be trended for the years following the cost report year, up to and including SFY 2005. The trends applied to the 2001 cost report data include the following:

- A. 2002:2 = 3.2%
- B. 2003:2 = 3.4%
- C. 2004:2 = 2.3%
- D. 2005:2 = 2.3%

E. The total trend applied to the 2001 cost report data is 11.2%.

3. The medians and ceilings shall be recalculated, based upon the trended costs included in the new databank.

4. The costs, beds, days, renovations/major improvements, loans, etc. from each facility's cost report included in the databank shall be used to calculate each nursing facility's rate. The costs reflected in each facility's cost report shall be trended as detailed above in paragraph (21)(A)2.

(B) The asset value used to determine the capital cost component, as set forth in subsection (11)(D), shall be based upon the 2004 publication of the RS Means Building Construction Cost Data. The asset value is determined by using the median, total cost of construction per bed for nursing homes from the "S.F., C.F., and % of Total Costs" table and adjusting it by the total weighted average index for Missouri cities from the "City Cost Indexes" table. The asset value shall be forty-one thousand seven hundred twenty-seven dollars and fifty cents (\$41,727.50).

(C) The age of the beds shall be calculated from 2004.

(D) The interest rate used in determining the capital cost component and working capital allowance, as set forth in subsections (7)(F), (11)(D), and (11)(E), shall be the prime rate as reported by the Federal Reserve and published in the *Wall Street Journal* on the first business day of June 2004 plus two percent (2%). The interest rate shall be the prime rate of four percent (4%), as published June 1, 2004, plus two percent (2%) for a total of six percent (6%).

(E) The rate of return used in determining the capital cost component, as set forth in subsection (11)(D), shall be the interest (i.e., coupon) rate for the most recent issue of thirty (30)-year Treasury Bonds in effect on the first business day of June 2004 plus two percent (2%). The rate of return shall be the thirty (30)-year Treasury Bond rate of 5.375%, effective June 1, 2004, plus two percent (2%) for a total of 7.375%.

(F) The administration and capital cost components shall be adjusted for minimum utilization at eighty-five percent (85%) occupancy.

(G) Rate adjustment requests for replacement beds, additional beds, and/or extraordinary circumstances as set forth in paragraphs (13)(B)1., (13)(B)2. and (13)(B)3. are no longer allowed.

(H) The rates effective for dates of service beginning July 1, 2005 shall be determined as set forth below:

1. A preliminary rate for July 1, 2005 shall be calculated using the same principles and methodology as detailed throughout sections (1)-(19) of this regulation and the updated items detailed above in subsections (21)(A)-(G).

2. The total increase resulting from the July 1, 2005 preliminary rate calculation shall be calculated as follows:

A. Each facility's rate as of June 30, 2004, less the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)5., shall be compared to the July 1, 2005 preliminary rate calculation.

(I) The high volume adjustment, if applicable, and the NFRA shall not be included in the June 30, 2004 rate or the July 1, 2005 preliminary rate for comparison purposes in determining the total increase.

(II) The high volume adjustment, if applicable, and the current NFRA shall be added to the rate determined below in subparagraphs (21)(H)2.B. and (21)(H)2.C.

B. If the July 1, 2005 preliminary rate is greater than the June 30, 2004 rate including the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)5., the difference between the two (2) shall represent the total increase. Effective for dates of service beginning July 1, 2005, one-third (1/3) of the total increase shall be added to the facility's rate as of June 30, 2004 including the reduction in the nursing facility operations adjust-

ment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)5. The high volume adjustment, if applicable, and the current NFRA shall be added to that total and shall be the facility's prospective rate for dates of service beginning July 1, 2005.

C. If the July 1, 2005 preliminary rate is less than the June 30, 2004 rate including the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)5., the facility's prospective rate shall be the facility's rate as of June 30, 2004 including the reduction in the nursing facility operations adjustment of fifty-four cents (54¢) effective July 1, 2004 as set forth in paragraph (13)(A)5. plus the high volume adjustment, if applicable, and the current NFRA.

AUTHORITY: sections 208.153 and 208.201, RSMo 2000. Original rule filed Aug. 1, 1995, effective March 30, 1996. For intervening history, please consult the *Code of State Regulations*. Emergency amendment filed March 21, 2005, effective April 1, 2005, expires Sept. 27, 2005. Amended: Filed March 29, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Department of Social Services, Division of Medical Services, 615 Howerton Court, Jefferson City, MO 65109. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. If to be hand-delivered, comments must be brought to the Division of Medical Services at 615 Howerton Court, Jefferson City, Missouri. No public hearing is scheduled.

**Title 20—DEPARTMENT OF INSURANCE
Division 300—Market Conduct Examinations
Chapter 2—Record Retention for Market Conduct
Examinations**

PROPOSED AMENDMENT

20 CSR 300-2.200 Records Required for Purposes of Market Conduct Examinations. The department is amending subsection (3)(C) of this rule.

PURPOSE: The purpose of this amendment is to clarify the requirements for record keeping for insurance companies and related entities doing business in this state.

(3) Records to be Maintained. The following records shall be maintained:

(C) Records to be maintained relating to the insurer's compliance with Missouri's licensing requirements shall include the Missouri licensing records of each insurance producer associated with the insurer. Licensing records shall be maintained so as to show clearly the dates of the appointment and terminations of each insurance producer. In accordance with the provisions of section 375.158, RSMo, copies of the current licenses of each insurance producer *[not appointed by the insurer but]* to whom a commission will be paid shall be on file with the insurer prior to the payment of this commission. The date of the receipt by the insurer of the copy of the license shall be indicated by a date-stamp placed on the license. Unless the company provides the examiners with written procedures to the contrary, the earliest date stamped on a document will be considered the initial date of receipt;

AUTHORITY: sections 144.027, 287.350, 354.190, 354.465, 354.717, 374.045, 374.190, 374.202, 374.205, 374.210, 375.013, 375.149, 375.150, 375.151, 375.932, 375.938, 375.948, 375.1002, 375.1009, 375.1018, 379.343, 379.475 and 536.016, RSMo 2000 and 375.012, 375.022 and 375.158, RSMo Supp.[2002] 2004. This rule was previously filed as 4 CSR 190-II.050. Original rule filed Dec. 20, 1974, effective Dec. 30, 1974. For intervening history, please consult the *Code of State Regulations*. Amended: Filed March 18, 2005.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: A public hearing will be held on this proposed amendment at 10:00 a.m. on June 7, 2005. The public hearing will be held at the Harry S Truman State Office Building, 301 West High Street, Jefferson City, Missouri. Opportunities to be heard at the hearing shall be afforded to any interested person. Interested persons, whether or not heard, may submit a written statement in support of or in opposition to the proposed amendment, until 5:00 p.m. on June 7, 2005. Written statements shall be sent to Kimberly Grinston, Department of Insurance, PO Box 690, Jefferson City, MO 65102.

SPECIAL NEEDS: If you have any special needs addressed by the Americans With Disabilities Act, please notify us at (573) 751-6798 or (573) 751-2619 at least five (5) working days prior to the hearing.

This section will contain the final text of the rules proposed by agencies. The order of rulemaking is required to contain a citation to the legal authority upon which the order of rulemaking is based; reference to the date and page or pages where the notice of proposed rulemaking was published in the *Missouri Register*; an explanation of any change between the text of the rule as contained in the notice of proposed rulemaking and the text of the rule as finally adopted, together with the reason for any such change; and the full text of any section or subsection of the rule as adopted which has been changed from that contained in the notice of proposed rulemaking. The effective date of the rule shall be not less than thirty (30) days after the date of publication of the revision to the *Code of State Regulations*.

The agency is also required to make a brief summary of the general nature and extent of comments submitted in support of or opposition to the proposed rule and a concise summary of the testimony presented at the hearing, if any, held in connection with the rulemaking, together with a concise summary of the agency's findings with respect to the merits of any such testimony or comments which are opposed in whole or in part to the proposed rule. The ninety (90)-day period during which an agency shall file its order of rulemaking for publication in the *Missouri Register* begins either: 1) after the hearing on the proposed rulemaking is held; or 2) at the end of the time for submission of comments to the agency. During this period, the agency shall file with the secretary of state the order of rulemaking, either putting the proposed rule into effect, with or without further changes, or withdrawing the proposed rule.

Title 2—DEPARTMENT OF AGRICULTURE
Division 100—Missouri Agricultural and Small Business
Development Authority
Chapter 7—Missouri Value-Added Loan Guarantee
Program (MoVAP)

ORDER OF RULEMAKING

By the authority vested in the Missouri Agricultural and Small Business Development Authority under section 348.432, RSMo Supp. 2004, the authority amends a rule as follows:

2 CSR 100-7.010 Description of Operation, Definitions, Borrower Requirements, Procedures for Making and Collecting Loans and Amending the Rules for the Missouri Value-Added Loan Guarantee Program **is amended**.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 18, 2005 (30 MoReg 150-151). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 2—DEPARTMENT OF AGRICULTURE
Division 100—Missouri Agricultural and Small Business
Development Authority
Chapter 10—New Generation Cooperative Incentive Tax
Credit Program

ORDER OF RULEMAKING

By the authority vested in the Missouri Agricultural and Small Business Development Authority under section 348.432, RSMo Supp. 2004, the authority amends a rule as follows:

2 CSR 100-10.010 Description of Operation, Definitions, and Method of Distribution and Repayment of Tax Credits **is amended**.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 18, 2005 (30 MoReg 151). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT

Division 30—Missouri Board for Architects,
Professional Engineers, Professional Land Surveyors,
and Landscape Architects
Chapter 5—Examinations

ORDER OF RULEMAKING

By the authority vested in the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors, and Landscape Architects under sections 327.041, RSMo Supp. 2004 and 327.151, RSMo 2000, the board amends a rule as follows:

4 CSR 30-5.060 Reexamination—Architects **is amended**.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 6-7). No changes have been made to the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT

Division 30—Missouri Board for Architects,
Professional Engineers, Professional Land Surveyors, and
Landscape Architects
Chapter 12—Complaints

ORDER OF RULEMAKING

By the authority vested in the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors, and Landscape Architects under sections 327.041 and 620.010.14(7), RSMo Supp. 2004, the board amends a rule as follows:

4 CSR 30-12.010 Public Complaint Handling and Disposition Procedure **is amended**.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on December 1, 2004 (29 MoReg 2212-2213). No changes have been made to the text

of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 1—General Rules**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.500, 337.520 and 337.535, RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-1.005 Committee for Professional Counselors—
General Organization **is adopted**.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 8-9). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 1—General Rules**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp 2004 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-1.010 Application for Licensure **is rescinded**.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 10). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 1—General Rules**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp 2004 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-1.020 Fees **is rescinded**.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 10). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 1—General Rules**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp. 2004 and 337.520.1(2), RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-1.020 Fees **is adopted**.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 10). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: One (1) comment was received.

COMMENT: Teresa M. Odem, LPC submitted a comment concerning the increase in the fee from one hundred forty dollars (\$140) to one hundred fifty dollars (\$150) noting that other licensure boards and committees have lower fees.

RESPONSE: The renewal fee will change from an annual fee of one hundred forty dollars (\$140) to a biennial renewal fee of two hundred dollars (\$200) for a total reduction of eighty dollars (\$80) over the two (2) year time period. The one hundred fifty dollar (\$150) fee pertains to the cost to apply for a license. The former regulatory language required a one hundred dollar (\$100) application fee and a fifty dollars (\$50) score endorsement fee for a total fee of one hundred fifty dollars (\$150). There is no change in the fee to apply for a license. The committee noted that the cost of operation determines the amount of fees that can be charged and such costs are allocated according to the number of licensees within a profession. If a profession has many licensees it is probable that the renewal fee will be less.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 1—General Rules**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.505 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-1.030 Acceptable Agents for Exempt Categories **is rescinded**.

A notice of the proposed rulemaking containing the text of the proposed rescission was published in the *Missouri Register* on January

3, 2005 (30 MoReg 10-11). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 1—General Rules**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.520, RSMo 2000 and 610.010-610.030, RSMo 2000 and Supp. 2004, the committee rescinds a rule as follows:

4 CSR 95-1.040 Policy for Handling Release of Public Records is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 11). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 1—General Rules**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.520, RSMo 2000 and 620.010, RSMo Supp. 2004, the committee adopts a rule as follows:

4 CSR 95-1.050 Public Complaint Handling and Disposition Procedure is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 11-14). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 1—General Rules**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp. 2004 and 337.515 and 337.520(1), RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-1.060 License Renewal and Changes to License is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 15-17). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.510, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-2.010 Educational Requirements is rescinded.

A notice of proposed rulemaking containing the text of the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 18). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.510, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-2.010 Educational Requirements is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 18-19). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: Four (4) comments were received.

COMMENT: Mary Metzeder, Ph.D. commented that a master's degree in psychology should be included in the definition of a mental health discipline in 4 CSR 95-2.010 (2).

RESPONSE: The committee surveyed and met with professors and counselor educators from graduate programs throughout the state and the consensus was that a master's degree in psychology is not substantially the same as a master's degree in counseling because of the theoretical orientation. In reviewing the content of the degrees recognized as meeting the educational requirements outlined in the regulation, such content reflects an orientation to counseling.

COMMENT: E. Grant Jones, Ph.D. commented that 4 CSR 95-2.010(3)(B)2. did not include a minimum number of clock hours composing a graduate program's practicum or internship. Dr. Jones recommended a six hundred (600) hour minimum requirement for graduate programs, noting that such a minimum is within the parameters of the Council for Accreditation of Counseling and Related Education Programs (CACREP) standards already accepted within the regulation.

RESPONSE: The committee continues to review the viability of requiring a six hundred (600) hour minimum for practicum or internships and continues to work with professors and counselor educators to determine how quickly such a requirement could be implemented by a counselor education program that may need to increase the class hours within a practicum or internship. A second concern of the committee involves the interstate mobility of applicants from states such as Illinois and Kansas. The committee determined it cannot ignore the impact of such a requirement on applicants with a degree from another state that could potentially provide counseling services to Missouri residents. Thus, the committee is reviewing practicum and internship composition of those bordering states.

COMMENT: Dr. Jones also suggested that the committee include the term "religion" within the definition of the core area of study, *Social and Cultural Diversity* 4 CSR 95-2.010(4)(C). Dr. Jones noted issues relating to religion is often referred to in various codes of ethics for professional associations.

RESPONSE: The committee noted that the regulation does not exclude courses involving issues of religious diversity from being considered for this core area of study. The committee determined it was impossible to identify all potential areas of diversity that occur within a pluralistic society and could be encompassed by a social and cultural course. Finally, the committee noted that the inclusion of religion by various codes of ethics for professional associations is not a content consideration for core course work, but an ethical consideration.

COMMENT: Two (2) similar comments were received from the National Association of Social Workers-Missouri Chapter and the Missouri Psychological Association. The professional associations recommended that the definition of *Appraisal* in 4 CSR 2.010(4)(G) be amended to reflect statutory language.

RESPONSE: The committee noted that when language exists in a statute it is unnecessary to restate the same language within a regulation. 4 CSR 95-2.020(3)(A) authorizes the acceptance of a Council for Accreditation of Counseling and Related Educational Programs (CACREP) accredited program as meeting educational requirements outlined within 4 CSR 95-2.010. The definition of the core area of study of appraisal within the regulation both condenses the parameters of topics covered by a course in appraisal and reflects the CACREP standard. Finally, the definition was a result of a survey and recommendations from professors and counselor educators of advanced degree counselor education programs throughout the state.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 95—Committee for Professional Counselors Chapter 2—Licensure Requirements

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.510, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-2.020 Supervised Counseling Experience is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 19). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 95—Committee for Professional Counselors Chapter 2—Licensure Requirements

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.510, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-2.020 Supervised Counseling Experience is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 20-24). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: One (1) comment was received.

COMMENT: Simon Koski, M.Ed., commented that clarification was needed regarding the provisional license category to include when the title could be used and any restrictions regarding the use of such title.

RESPONSE: The title for a provisional license professional counselor is defined in section 337.500(8), RSMo and any additional regulatory language would restate the statute and is not required. 4 CSR 95-2.020 defines the supervised counseling experience requirements that a provisional licensed professional counselor must meet. As part of the experience requirements an application is filed with the committee as required in 4 CSR 95-2.020(2) and includes a detailed explanation of the supervised counseling experience that encompasses the scope of practice defined in section 337.500 (6) and (7), RSMo. Since each application for supervision varies based upon the proposed supervision plan the committee is unable to identify all possible counseling responsibilities of a provisional licensed professional counselor within a regulation. Also, the committee noted that 4 CSR 95-3.010(2) requires any licensee or individual under supervision for licensure to provide services within that counselor's education and training. Finally, an integral part of the supervisory relationship is the continual review, discussion, and application of the law and regulations relating to the supervised experience.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 95—Committee for Professional Counselors Chapter 2—Licensure Requirements

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.510, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-2.021 Supervisors and Supervisory Responsibilities is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 25–26). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-2.030 Examinations is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 27). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-2.030 Examinations is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 27–28). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.510, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-2.040 Reexamination is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 29). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp. 2004 and 337.515 and 337.520, RSMo Supp. 2000, the committee rescinds a rule as follows:

4 CSR 95-2.050 Renewal of License is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 29). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-2.060 Name and Address Changes is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 29). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-2.065 Application for Licensure is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 29–33). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507 and 337.510, RSMo Supp. 2004 and 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-2.070 Reciprocity is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 34). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 2—Licensure Requirements**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.507 and 337.510, RSMo Supp. 2004 and 337.520, RSMo Supp. 2000, the committee rescinds a rule as follows:

**4 CSR 95-2.080 Endorsement of Written Examination Score is
rescinded.**

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 34). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.010 Scope of Coverage is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 34). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT**

**Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.520 and 337.525, RSMo 2000 the committee adopts a rule as follows:

4 CSR 95-3.010 is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 34–35). Those sections with changes have been reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENT: Six (6) comments were received.

COMMENT: Dr. Alfred O’Laughlin, LPC commented that 4 CSR 95-3.010(2) fails to recognize work experience as a contribution toward a counselor’s competency.

RESPONSE AND EXPLANATION OF CHANGE: The committee concurs with Dr. O’Laughlin’s comment noting that the post master’s supervision required for licensure and continued work experience in the mental health field contributes to a counselor’s competency. The committee amended the regulation accordingly.

COMMENT: Pleasant White, LPC commented that the regulation 4 CSR 95-3.010(6) does not provide how training in various assessment methods to include the DSM-IV would be proved by a counselor.

RESPONSE: The use of course descriptions and a syllabus from a class is utilized by the committee when reviewing content of a core area of study as listed in 4 CSR 95-2.010(5). However, when utilizing various assessment instruments a counselor could submit formal education via a transcript and course description, seminars, continuing education and training, as well as training provided by a test publisher.

COMMENT: Dr. O’Laughlin commented that the regulation exceeded the scope of the regulatory authority of the committee.

RESPONSE: Section 337.520(6) RSMo authorizes the division to promulgate regulations pertaining to “...standards and methods to be used in assessing competency as a professional counselor.” Any tool used in any format of assessment must address the counselor’s competency to refer to that assessment tool or method in the development of a treatment plan and providing therapy.

COMMENT: Dr. O’Laughlin commented that the regulation references a specific publication, DSM-IV, which is updated on occasion and noted that once updated the regulation would not encompass any changes to the newest version of the publication.

RESPONSE AND EXPLANATION OF CHANGE: The committee concurs with Dr. O’Laughlin’s comment and amended the regulation accordingly.

COMMENT: Dr. O’Laughlin commented that the regulation requires a counselor to obtain formal courses in the utilization of various assessment tools.

RESPONSE AND EXPLANATION OF CHANGE: The regulation does not mandate additional formal education. Instead the regulation requires adequate education and training that would include formal course work, continuing education, seminars, or training that is provided by a test publisher.

COMMENT: Dr. Alfred O’Laughlin commented that the restriction of emotional or sexual involvement with a client as outlined in 4 CSR 95-3.010(12) was illegal and unconstitutional.

RESPONSE: The restriction of emotional and/or sexual involvement with a client is embraced within various codes ethics of mental health practitioners. Section 337.520.1(2) RSMo authorizes the division to promulgate ethical standards for counselors and the emotional and/or sexual involvement with a client is included because it is an area of professional conduct.

Dr. O’Laughlin cites to *Lawrence v. Texas*, 539 U.S. 558; 123 S.Ct. 2472; 156 L.Ed.2d 508 (2003) as supporting his argument that the states cannot regulate the personal, sexual relationship that may develop between a patient and his/her treating therapist. In fact, *Lawrence* is a case that determined whether or not a Texas statute that made it a crime for two (2) persons of the same sex to engage in intimate sexual contact was constitutional. The Supreme Court held that, “[t]he Texas statute furthers no legitimate state interest which can justify its intrusion into the individual’s personal and private life”, declaring the statute unconstitutional. *Id.*, 539 U.S. at 561. The Supreme Court’s opinion in *Lawrence* does not address a state’s right to intrude into an individual’s “personal and private life” when such intrusion is supported by compelling reasons to further a legitimate state interest in preventing public harm.

In direct contradiction to the commentary’s assertions that the state and, therefore, the committee have no right to prohibit or regulate a counselor’s inappropriate personal and/or sexual relationship with his or her clients, are cases that support such conduct as a basis for malpractice or gross negligence claims. See *McNicholes v. Subotnik*, 12 F.3d. 105 (8th Cir. 1993) (affirming summary judgment in a malpractice case against a psychologist who engaged in sexual relationship with his patient); *Perez v. The Missouri State Board of Registration for the Healing Arts*, 803 S.W.2d 106 (W.D. 1991) (ruling that expert testimony was not necessary to establish that professional standards of conduct had been violated — the evidence that the physician had engaged in sexual conduct with his patient was sufficient to support the finding that he had engaged in unethical or unprofessional conduct); and *Benavidez v. United States of America*, (10th Cir. 1999) (finding that courts have uniformly accepted that the mishandling of therapist/client relationships by engaging in sexual conduct constitutes malpractice or gross negligence). What two (2) consenting adults do in a relationship not founded upon a health care issue (physical or mental) is not the subject of the regulation. A relationship that originated from an association with a counselor (i.e. counselor-client/patient relationship), has the potential for an abuse of power or influence when the counselor engages in an exploitive relationship with that client. This exploitation is universally found to be unethical behavior. The regulation addresses the potential for exploitation and the unethical conduct stemming from such exploitation.

4 CSR 95-3.010 Scope of Coverage

(2) A counselor shall practice within the boundaries of his/her competence, based upon education, training, and experience.

(6) When administering, scoring, or interpreting any tests or appraisal instruments, a counselor shall be adequately educated and trained. For the purpose of this rule, adequate training shall be defined as formal, graduate course work that involves the administration and interpretation of the instrument or advance training, such as seminars sponsored by the test publisher. A licensed professional counselor shall have training in diagnostic and assessment tools commonly used in the assessment process.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 95—Committee for Professional Counselors Chapter 3—Professional Responsibility

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under sections 337.520 and 337.525, RSMo 2000, the committee adopts a rule as follows:

4 CSR 95-3.015 Client Welfare is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 35-36). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: Two (2) comments were received.

COMMENT: Dr. Alfred O’Laughlin commented that 4 CSR 95-3.015(1) establishes a standard for a counselor to maintain that is based upon secretarial duties and does not reflect upon a counselor’s skill and ability to provide therapy. Additionally, the comment noted that no statute requires that a licensee keep records and such a requirement is not implied in the rulemaking authority of the committee. Dr. O’Laughlin further noted that record keeping for health professionals such as doctors and nurses is different from the record keeping of a counselor and that lack of record keeping by a counselor does not endanger the public.

RESPONSE: The record keeping requirement of the proposed regulatory language does not refer to documenting actual conversations with a client. Instead the regulation refers to tracking information such as presentation of the client’s problem, test results, progress notes, treatment plan and client history to include information such as primary care physician and any medication. In mental health practices such information retention is a standard procedure in order to provide services that benefit the client and document such progress throughout the treatment. The committee strongly believes that minimum record keeping is a standard of practice that protects both the client and the counselor.

COMMENT: Dr. Alfred O’Laughlin commented that 4 CSR 95-3.015(5) violates the amendments of the Constitution citing a case *Canterbury v Spence* (464 F 2d.772 1972).

RESPONSE: The regulation does not force a licensee to incriminate her/himself in violation of the federal or state Constitutions. The regulation is an ethical standard for a licensee to follow when reporting misconduct relating to counseling. The case cited is not relevant to the regulation.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 95—Committee for Professional Counselors Chapter 3—Professional Responsibility

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.020 Definitions is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 36-37). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.030 Ethical Considerations of Canon 1 – Moral and Legal Standards is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 37). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.040 Disciplinary Rules of Canon 1—Moral and Legal Standards is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 37). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.050 Ethical Considerations of Canon 2—Counselor-Client Relationship is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 37). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.060 Disciplinary Rules of Canon 2—Counselor-Client Relationship is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 37-38). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.070 Ethical Considerations of Canon 3 – Professional Relationships is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 38). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.080 Disciplinary Rules of Canon 3—Professional Relationships **is rescinded.**

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 38). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.090 Ethical Considerations of Canon 4—Group Relationships **is rescinded.**

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 38). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.100 Disciplinary Rules of Canon 4—Group Relationships **is rescinded.**

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 38-39). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo, 2000, the committee rescinds a rule as follows:

4 CSR 95-3.110 Ethical Considerations of Canon 5—Public Statements/Fees **is rescinded.**

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 39). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.120 Disciplinary Rules of Canon 5—Public Statements/Fees **is rescinded.**

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 39). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.130 Ethical Considerations of Canon 6—Confidentiality **is rescinded.**

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 39). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.140 Disciplinary Rules of Canon 6—Confidentiality is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 39–40). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.150 Ethical Considerations of Canon 7—Assessment is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 40). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.160 Disciplinary Rules of Canon 7—Assessment is rescinded.

A notice of proposed rulemaking containing the text of the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 40). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.170 Ethical Considerations of Canon 8—Research Activities is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 40). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.180 Disciplinary Rules of Canon 8—Research Activities is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 40–41). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility****ORDER OF RULEMAKING**

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.190 Ethical Considerations of Canon 9—Competence is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 41). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.200 Disciplinary Rules of Canon 9—Competence is **rescinded**.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 41). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.210 Ethical Considerations of Canon 10—License Credentials is **rescinded**.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 41). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 3—Professional Responsibility**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-3.220 Disciplinary Rules of Canon 10—License Credentials is **rescinded**.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 41-42). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 95—Committee for Professional Counselors
Chapter 4—Complaint Handling**

ORDER OF RULEMAKING

By the authority vested in the Committee for Professional Counselors under section 337.520, RSMo 2000, the committee rescinds a rule as follows:

4 CSR 95-4.010 Public Complaint Handling and Disposition Procedure is **rescinded**.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 42). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 150—State Board of Registration for the
Healing Arts
Chapter 2—Licensing of Physicians and Surgeons**

ORDER OF RULEMAKING

By the authority vested in the State Board of Registration for the Healing Arts under sections 334.090.2 and 334.125, RSMo 2000, the board withdraws a rule as follows:

4 CSR 150-2.080 Fees is **withdrawn**.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on December 1, 2004 (29 MoReg 2216). The proposed amendment is withdrawn.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 220—State Board of Pharmacy
Chapter 4—Fees Charged by the Board of Pharmacy**

ORDER OF RULEMAKING

By the authority vested in the State Board of Pharmacy under sections 338.020, 338.035, 338.040, 338.070, 338.140 and 338.280, RSMo 2000 and 338.030, RSMo Supp. 2004, the board amends a rule as follows:

4 CSR 220-2.030 Education and Licensing Requirements is **amended**.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 46-47). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) day after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT****Division 240—Public Service Commission
Chapter 3—Filing and Reporting Requirements****ORDER OF RULEMAKING**

By the authority vested in the Public Service Commission under sections 386.250 and 386.410, RSMo 2000, the commission adopts a rule as follows:

4 CSR 240-3.513 Filing and Submission Requirements for Telecommunications Company Applications for Approval of Interconnection Agreements, Amendments to Interconnection Agreements, and for Notices of Adoptions of Interconnection Agreements or Statements of Generally Available Terms **is adopted.**

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 18, 2005 (30 MoReg 151–152). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed rule was held February 23, 2005, and the public comment period ended February 17, 2005. The staff of the Missouri Public Service Commission filed written comments prepared by Natelle Dietrich, Regulatory Economist III, during the public comment period. Those comments were admitted into the record at the public hearing. No other comments were received.

COMMENT: The staff of the Missouri Public Service Commission supports the adoption of the proposed rule in its entirety. No changes have been made as a result of this comment.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 240—Public Service Commission
Chapter 125—Manufactured Home Installers****ORDER OF RULEMAKING**

By the authority vested in the Public Service Commission under section 700.692, RSMo Supp. 2004, the commission adopts a rule as follows:

4 CSR 240-125.010 Definitions **is adopted.**

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on February 15, 2005 (30 MoReg 365–366). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 240—Public Service Commission
Chapter 125—Manufactured Home Installers****ORDER OF RULEMAKING**

By the authority vested in the Public Service Commission under section 700.692, RSMo Supp. 2004, the commission adopts a rule as follows:

4 CSR 240-125.020 General Provisions **is adopted.**

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on February 15, 2005 (30 MoReg 366). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 240—Public Service Commission
Chapter 125—Manufactured Home Installers****ORDER OF RULEMAKING**

By the authority vested in the Public Service Commission under section 700.692, RSMo Supp. 2004, the commission adopts a rule as follows:

4 CSR 240-125.030 Exceptions to Licensing Requirements **is adopted.**

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on February 15, 2005 (30 MoReg 366–367). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 240—Public Service Commission
Chapter 125—Manufactured Home Installers****ORDER OF RULEMAKING**

By the authority vested in the Public Service Commission under section 700.692, RSMo Supp. 2004, the commission adopts a rule as follows:

4 CSR 240-125.040 Manufactured Home Installer License **is adopted.**

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on February 15, 2005 (30 MoReg 367–369). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC
DEVELOPMENT
Division 240—Public Service Commission
Chapter 125—Manufactured Home Installers****ORDER OF RULEMAKING**

By the authority vested in the Public Service Commission under section 700.692, RSMo Supp. 2004, the commission adopts a rule as follows:

4 CSR 240-125.050 Limited Use Installer License is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on February 15, 2005 (30 MoReg 370). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT
Division 240—Public Service Commission
Chapter 125—Manufactured Home Installers**

ORDER OF RULEMAKING

By the authority vested in the Public Service Commission under section 700.692, RSMo Supp. 2004, the commission adopts a rule as follows:

4 CSR 240-125.060 Licensing is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on February 15, 2005 (30 MoReg 370–372). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT
Division 240—Public Service Commission
Chapter 125—Manufactured Home Installers**

ORDER OF RULEMAKING

By the authority vested in the Public Service Commission under section 700.692, RSMo Supp. 2004, the commission adopts a rule as follows:

4 CSR 240-125.070 Installation Decals is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on February 15, 2005 (30 MoReg 373–375). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 30—Office of the Director
Chapter 7—Driver and Vehicle Equipment Regulations**

ORDER OF RULEMAKING

By the authority vested in the director of the Department of Public Safety under section 307.030, RSMo 2000, the director adopts a rule as follows:

11 CSR 30-7.020 Alternate Equipment Regulations for Animal-Drawn Vehicles is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 18, 2005 (30 MoReg 163). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.025 Bingo Promotions is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 67). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.030 Special Bingo Game is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 67–68). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission adopts a rule as follows:

11 CSR 45-30.035 Bingo Card is adopted.

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on January 3, 2005 (30 MoReg 68). No changes have been made in the text of the proposed rule, so it is not reprinted here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed rule was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from Chet Doile, Bingo Chairman for the Lake Lotawanna VFW Post. At the public hearing, the commission staff explained the changes and no comments were received.

COMMENT: The word "bingo card" is a prehistoric definition commonly used throughout the bingo rules. It is confusing to some people since bingo is now played on paper. In the industry it's called a "face" which is also confusing to some people. As for thought, is a more appropriate terminology possible?

RESPONSE: The definition of a "bingo card" provided in the rule is taken from the definition and description of a bingo card found in section 313.005(1) and (2), RSMo 2000, and therefore any change in the definition of a bingo card cannot occur until such time as section 313.005(1) and (2), RSMo, is amended by the Missouri Legislature.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission rescinds a rule as follows:

11 CSR 45-30.050 Gross Receipts is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 69). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.060 is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 69). Those sections with changes are reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from Michael D. Myers, Bingo Chairman for the Heart of the Ozarks Sertoma Club; Matt Stowers for Goodtime Bingo; the Association of Charitable Games Missouri (ACGM); Larry Loos, Bingo Chairman for the Friday Optimist of Cape Girardeau; Marguerite M. Morrissey of St. Michael's Catholic Church; Constance Marshall, Bingo Chairperson for the Richmond Heights-Crestwood Ladies Auxiliary to VFW Post 3500; and Al Brown, Bingo Chairman for the Kol Am Congregation. At the public hearing, the commission staff explained the changes and one (1) comment was made by W.T. Dawson, Legislative Consultant for ACGM.

COMMENT: All comments received by the commission opposed the amendment by asserting that requiring a bingo organization to report a change in the bingo chairperson to the commission within one (1) calendar day would be an undue hardship on many bingo organizations. The majority of comments received also requested that bingo organizations be given thirty (30) calendar days to report a change in the bingo chairperson to the commission.

RESPONSE AND EXPLANATION OF CHANGE: Section 313.030, RSMo 2000 requires bingo organizations to "immediately report" changes in any of its officers. The term "immediately" is defined by *Webster's New World College Dictionary* as, "in an immediate manner." Due to the undue hardship that would be incurred by many bingo organizations in reporting a change in the bingo chairperson within one (1) calendar day, the commission shall adopt an interpretation of the "immediately report" requirement imposed by section 313.030, RSMo, that allows bingo organizations to report a change in the bingo chairperson within thirty (30) calendar days and is changing section (1) of the rule accordingly.

Change in officers to be reported to commission—license to be displayed.

313.030. Any organization licensed to play bingo which changes any of its officers, directors or officials during the term of the bingo license shall immediately report the names and addresses of such individuals to the director, along with a sworn statement of each such individual as required on forms furnished by the director. Each licensee shall display the license in a prominent place in the area where it is to conduct bingo. The license issued by the commission shall authorize the licensee to conduct only the game commonly known as bingo.

11 CSR 45-30.060 Operator(s)

(1) Each application or renewal application shall designate a bingo chairperson who shall be responsible for the overall supervision, management, and conduct of the bingo activities. The bingo chairperson shall maintain, or be responsible for maintaining, all records necessary to accurately reflect the bingo operations and shall timely file all required reports. The commission shall be notified as soon as possible but not later than thirty (30) calendar days from the date of any change of the bingo chairperson.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission withdraws a rule as follows:

11 CSR 45-30.070 Regular Bingo License is withdrawn.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 69–70). This proposed amendment is withdrawn.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received four (4) written comments. At the public hearing, the commission staff explained the changes and one (1) comment was made.

COMMENT: All comments received by the commission opposed the amendment, due to the fact that the amendment repeated the requirements found in the commission's proposed amendment to 11 CSR 45-30.040, thereby creating an unneeded and cumbersome redundancy in the two (2) rules.

RESPONSE: The commission is withdrawing this rulemaking.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission withdraws a rule as follows:

11 CSR 45-30.140 Worker—Player is withdrawn.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 70). This proposed amendment is withdrawn.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from James F. Bailey; Constance Marshall, Bingo Chairman for the Richmond Heights-Crestwood Ladies Auxiliary to VFW Post 3500; Al Brown, Bingo Chairman for the Kol Am Congregation; Chet Doile, Bingo Chairman for the Lake Lotawana VFW Post; Ray Bryant for the Hannibal Regional Hospital Auxiliary; Paul Conner, Bingo Chairman for VFW Post 3944; Larry Loos, Bingo Chairman for the Friday Optimist of Cape Girardeau; Association of Charitable Games Missouri (ACGM); Matt Stowers for Goodtime Bingo; and Michael D. Myers, Bingo Chairman of the Heart of the Ozarks Sertoma Club. At the public hearing, the commission staff explained the changes and four (4) comments were made by David Tackett for the Warrensburg American Legion Post 131; W. T. Dawson, Legislative Consultant for ACGM; Larry Loos; and Linda Bennett, Bingo Chairman for the VFW Post 280 Auxiliary.

COMMENT: All comments received by the commission were in opposition of the amendment as placing an undue hardship on bingo organizations, due to the fact that it would make it more difficult for organizations to find enough workers to conduct a bingo occasion and sell raffle and sweepstakes tickets during the same occasion if the commission prohibits bingo workers from selling raffle and sweepstakes tickets during any occasion in which they are involved in the management, conduct, or operation of any game of bingo.

RESPONSE: The purpose of the proposed amendment was to help ensure that the money bingo organizations received from the sale of raffle and sweepstakes tickets was not commingled with bingo funds, as the commission had received reports that bingo workers selling raffle and sweepstakes tickets were commingling the monies received from the sale of such tickets in the same money pouches and aprons

they store monies received from the sale of bingo cards and pull-tabs, however, based on the unanimity of the comments in opposition of the proposed amendment and assurances from the organizations and persons commenting that raffle and sweepstakes funds would no longer be commingled with bingo funds by bingo workers, the commission is withdrawing this rulemaking.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.155 is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 70–71). Those sections with changes are reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from the Association of Charitable Games Missouri (ACGM). At the public hearing, the commission staff explained the changes and one (1) comment was made by W.T. Dawson, Legislative Consultant for ACGM.

COMMENT: ACGM requested that the commission add the following language to section (2) of the rule, “or any other equipment as may be defined by the Gaming Commission” in order to allow the commission the flexibility to approve bingo equipment in the future without having to amend the rule.

RESPONSE AND EXPLANATION OF CHANGE: The commission agrees with ACGM that flexibility to approve bingo equipment in the future without having to amend the rule is a desirable ability for the commission to possess, and therefore; the commission is changing section (1) but not section (2) of the proposed amendment to include language similar to the language proposed by ACGM, as the commission feels the language change should be present in the section of the rule that defines “bingo selection equipment” and not in the section of the rule that addresses only the maintenance of such equipment.

11 CSR 45-30.155 Bingo Equipment Defined

(1) In addition to the items listed in section 313.005(3), RSMo the following items are considered paraphernalia used in the conduct of a bingo or pull-tab game or event:

(A) Bingo selection equipment which includes but is not limited to bingo blowers, hoppers, squirrel cages, manual or electronic display boards, electronic bingo card monitoring devices, any equipment designated by the commission as bingo selection equipment; and

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission rescinds a rule as follows:

11 CSR 45-30.160 Equipment is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 71). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission rescinds a rule as follows:

11 CSR 45-30.170 Records Required is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 71). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.175 is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 71-72). Those sections with changes are reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from R. Lee James for the American Legion Post 117; Constance Marshall, Bingo Chairman for the Richmond Heights-Crestwood Ladies Auxiliary to VFW Post 3500; and Larry Loos, Bingo Chairman for the Friday Optimist of Cape Girardeau. At the public hearing, the commission staff explained the changes and two (2) comments were made by David Tackett for the Warrensburg American Legion Post 131; and Larry Loos.

COMMENT: R. Lee James requested that the commission only require bingo organizations to retain winning bingo sheets and pull-tab cards for a period of one (1) year.

RESPONSE: The commission feels that it is necessary to retain not only winning bingo sheets and pull-tab cards but winning bingo cards as well in order to maintain the integrity of charitable bingo in Missouri, and therefore, the commission will continue to require bingo organizations to maintain winning bingo cards in the amount of two hundred dollars (\$200) or higher for a period of one (1) year.

COMMENT: David Tackett requested that bingo organizations be allowed to let bingo players retain their winning bingo cards, bingo sheets, or pull-tab cards if the players request to do so. Mr. Tackett also requested that bingo organizations only be required to validate winning pull-tab cards in the amount of fifty dollars (\$50) or higher. RESPONSE: The commission feels that it is necessary to validate all winning bingo sheets, bingo cards, and pull-tab cards, as well as retain all winning bingo sheets and bingo cards in the amount of two hundred dollars (\$200) or higher, in order to maintain the integrity of charitable bingo in Missouri, and therefore, the commission will continue to require bingo organizations to validate all winning bingo sheets, bingo cards, and pull-tab cards, as well as retain winning bingo sheets and bingo cards in the amount of two hundred dollars (\$200) or higher and retain all winning pull-tab cards in the amount of one hundred dollars (\$100) or higher.

COMMENT: Larry Loos wanted to thank the commission for the changes it is making to the rule.

RESPONSE: The commission sincerely appreciates Mr. Loos's kind words and hopes he enjoys the changes to the rule.

COMMENT: Constance Marshall requested that the commission only require bingo organizations to maintain the pull-tab flares for a period of one (1) year.

RESPONSE AND EXPLANATION OF CHANGE: The commission is changing section (6) of the amendment to only require bingo organizations to maintain pull-tab flares for a period of one (1) year from the date of completion of the corresponding pull-tab game.

11 CSR 45-30.175 Organization (Operator) Record Keeping Requirements

(6) All pull-tab flares must be retained by the organization for a period of one (1) year from the date the corresponding pull-tab game is completed or terminated upon prior approval by the commission. Each winning pull-tab card for values of one hundred dollars (\$100) or more must be signed by the winner, dated, and retained by the organization for a period of one (1) year.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.180 is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 72-73). Those sections with changes are reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from the Association of Charitable Games Missouri (ACGM); Jeff Jalovec for Applied Concepts, Inc.; J. Keith Essmyer, Jr., Legal Counsel for the Commission; and Constance Marshall, Bingo Chairman for the Richmond Heights-Crestwood Ladies Auxiliary to VFW Post 3500. At the public hearing, the commission staff explained the changes and one (1) comment was made by W.T. Dawson, Legislative Consultant for ACGM.

COMMENT: Constance Marshall requested that the commission not require written inventory records be kept by bingo licensees who do not share their bingo halls or facilities with other licensees.

RESPONSE: The commission considers written inventory records to be an important mechanism the commission can use to ensure that the integrity of charitable bingo in Missouri is not being impugned by a bingo organization or its members, and therefore, the commission will continue to require all organizations to maintain written inventory records.

COMMENT: J. Keith Essmyer, Jr., commented that the amendment as published in the *Missouri Register* did not accurately reflect the version of the amendment that was originally proposed to the commission, as the commission never intended to delete the original sections (1) and (2) of the rule but intended to incorporate the definition of co-ownership of bingo equipment currently found in 11 CSR 45-30.290 and the permissible rental terms for bingo equipment currently found in 11 CSR 45-30.300, into the rule.

RESPONSE AND EXPLANATION OF CHANGE: The commission is changing sections (1) and (2) and adding sections (3) and (5) to the amendment to reflect the original intent of the commission.

COMMENT: Jeff Jalovec requested that the commission better define the term "ownership interest."

RESPONSE AND EXPLANATION OF CHANGE: The commission is providing a definition of the term "ownership interest" by adding section (4) to the amendment.

COMMENT: ACGM commented that the amendment was too restrictive, as the amendment seems to require a bingo organization that holds a bingo occasion away from its regular location for one (1) night to enter into a purchase agreement with a hall provider for bingo equipment for that one (1) night and then sell the equipment back to the hall provider the next day.

RESPONSE AND EXPLANATION OF CHANGE: The commission is providing a definition of the term "ownership interest" that includes a lease interest by adding section (4) to the amendment. The commission is also adding sections (6) and (7) to the amendment to codify the commission's present policy that, aside from electronic bingo equipment, a regular bingo licensee conducting a bingo occasion under a special bingo license is not required to have an ownership interest in the bingo equipment used during such an occasion.

11 CSR 45-30.180 Inventory, Ownership, and Leasing of Bingo Equipment

(1) Accurate records must be maintained indicating the quantity and ownership of all equipment used directly in the conduct of bingo. Owner's name must be indicated on the equipment.

(2) Each licensee shall keep a separate inventory of bingo paper and pull-tab cards. Bingo paper and pull-tab cards purchased by one (1) licensee may not be used during another licensee's game without prior approval from the commission.

(3) No bingo licensee that is the holder of a regular bingo license shall use bingo equipment in which the licensee does not have an

ownership interest. Two (2) or more bingo licensees may enter into an agreement for the joint ownership of bingo equipment. No nonlicensee shall share any interest in the equipment except the security interest of an established financial institution. The equipment may not be purchased from a nonlicensee who has an interest in the premises on which the equipment is to be used. A copy of the purchase agreement may be requested by the commission and shall contain the following information:

- (A) The percentage of ownership;
- (B) The total cost of the co-ownership;
- (C) The amount and terms of any time payment (if applicable);
- (D) The name of the seller and other co-owners;
- (E) Acceptable method(s) for sale or disposition of the co-ownership; and
- (F) A description of the bingo equipment purchased.

(4) For the purposes of this rule the term "ownership interest" shall include a sole ownership interest, co-ownership interest, or lease interest in bingo equipment.

(5) Bingo equipment shall only be leased from a licensed supplier. No lease providing for a rental arrangement for bingo equipment shall provide for payment in excess of the reasonable market rental rate for such equipment and in no case shall any payment be based on a percentage of gross receipts or profits derived from the game of bingo.

(6) Except for Electronic Bingo Card Monitoring Devices (EBCMDs), a regular bingo licensee conducting a bingo occasion under a special bingo license may, during the occasion, use bingo equipment in which the licensee does not have an ownership interest.

(7) A regular bingo licensee conducting a bingo occasion under a special bingo license shall not, during the occasion, use any EBCMDs in which the licensee does not have an ownership interest.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.200 is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 73). Those sections with changes are reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from the Association of Charitable Games Missouri (ACGM). At the public hearing, the commission staff explained the changes and one (1) comment was made by W.T. Dawson, Legislative Consultant for ACGM.

COMMENT: ACGM requested that the commission strike the addition of the word "pull-tab" from section (1) of the amendment, as bingo organizations are not permitted to offer merchandise prizes during pull-tab games.

RESPONSE AND EXPLANATION OF CHANGE: The commission is changing section (1) by removing the word “pull-tab” from the section and is adding section (2) to make it clear that the record keeping requirement for merchandise prizes provided with pull-tab games concerns licensed manufacturers and not bingo organizations.

11 CSR 45-30.200 Merchandise Prizes

(1) When merchandise is awarded as a prize in a bingo game, its value shall be the suggested retail price or fair retail market value. Receipts for the purchase of merchandise or documentation as to the suggested retail price or fair market value of donated items to be awarded as merchandise prizes must be retained in the records of any licensee awarding the prizes to players or supplying the prizes to another licensee.

(2) When merchandise is provided or included as a prize with a pull-tab game, its value shall be the suggested retail price or fair retail market value. Receipts for the purchase of merchandise prizes or documentation as to the suggested retail price or fair market value of donated items to be awarded as merchandise prizes must be retained in the records of any licensed manufacturer that invents, fabricates, assembles, or otherwise produces the pull-tab game.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.205 Game Operation Definitions is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 73). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.210 Reports is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 73-74). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission under section 313.065, RSMo 2000, the commission rescinds a rule as follows:

11 CSR 45-30.220 Bank Account is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 74). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.235 Reasonable Market Rental Rate for Leased Premises and Leased Locations is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 74). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission under section 313.065, RSMo 2000, the commission rescinds a rule as follows:

11 CSR 45-30.240 Leased Locations is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 74-75). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.270 Premises Defined, Inspections, All Gambling and Gambling Devices Prohibited is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 75). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from the Association of Charitable Games Missouri (ACGM). At the public hearing, the commission staff explained the changes and one (1) comment was made by W.T. Dawson, Legislative Consultant for ACGM.

COMMENT: ACGM opposed the amendment because the commission did not limit its definition of the term “premises” to the area in which an organization holds a bingo occasion, as opposed to the organization’s entire premises. By requiring that an organization allow the commission and its agents to inspect its entire premises, ACGM asserts the commission is unlawfully giving itself the power to search an organization’s premises without first obtaining a search warrant in willful violation of the Fourth and Fourteenth Amendments of the *United States Constitution* and Article I, Section 15 of the *Missouri Constitution*. ACGM also expressed concern over the fact that the commission has disciplined several bingo organizations for possessing illegal gambling devices and other actions committed by organization members not involved in the management, conduct, or operation of any bingo game.

RESPONSE: A license to conduct charitable bingo is not a right but a privilege granted to qualified organizations by the citizens of Missouri that allows an organization to conduct an activity that without such a license would be illegal. See: *Seventy-one Sportsman Club, Inc., v. Director of Revenue*, 707 S.W.2d 805, 808 (Mo.App. E.D. 1986), citing *Frank v. Wabash Railroad Company*, 295 S.W.2d 16, 20 (Mo. 1956). In granting a license to conduct charitable bingo to a qualified organization, the state of Missouri retains a public interest as to how and in what manner the organization conducts the game of bingo. “The constitutional guarantees against unreasonable searches and seizures are intended for the protection of private rights only, and do not interfere with investigations into matters of a public nature or in which the public has an interest.” See: *City of St. Louis v. William Carroll*, 494 S.W.2d 1 (Mo. 1973). To ensure that the public’s interest in charitable bingo is protected, the Missouri Legislature has charged the commission under sections 313.004.4 and 313.065, RSMo 2000, with protecting that interest through the enforcement of sections 313.005 to 313.080, RSMo 2000. To effectively enforce sections 313.005 to 313.080, the commission has always required that the entire premises of a licensed organization be open to inspection by the commission or its agents as a condition of licensure. Just as the commission requires the entire premises of a riverboat casino and not just the casino’s gaming floor to be open to inspection by the commission or its agents to ensure the integrity of riverboat gaming in the state, so too does the commission require the entire premises of any bingo licensee to be open to inspection to

ensure the integrity of charitable bingo in the state. The commission routinely receives complaints from the public about bingo licensees conducting illegal activities on the licensees’ premises but outside of the area in which they conduct bingo, such as possessing illegal, untaxed bingo paper or pull-tabs or illegal gambling devices, and the commission’s ability to inspect a licensee’s entire premises to investigate such complaints serves to protect the public’s interest in charitable bingo, as well as ensures that a licensee is not engaging in any illegal activities in violation of that interest.

Traditionally the term “premises” has been defined as, “a piece of real estate; house or building and its land.” See: *Webster’s New World College Dictionary*. In other words, the term “premises” has been traditionally used to refer to a person or organization’s property and all the buildings and structures contained on that property. In 1998, ACGM adopted the traditional definition of premises when it successfully argued in federal court to have the restrictions imposed by Article III, Section 39(a)(7) declared unconstitutional, restrictions that prohibited bingo organizations from advertising bingo games off the organization’s premises, in an effort to make it legal for bingo organizations to advertise bingo games off its property, such as in newspapers. See: *Association of Charitable Games of Missouri v. Missouri Gaming Commission*, 1998 U.S. Dist. Lexis 14433. Now, ACGM is asking the commission to adopt a more restrictive, non-traditional definition of premises in an apparent effort to shield bingo organizations from discipline for actions taken by the organization or its members outside of the bingo gaming area. The commission refuses to adopt a more restrictive definition of premises as such an adoption would greatly curtail the commission’s ability to protect the public’s interest in charitable bingo, especially in light of the fact that the state allows an organization to open its premises to minors accompanied by a parent, as well as open its bingo games to persons as young as sixteen (16). See: Section 313.040(10), RSMo 2000. The commission fears the public interest in charitable bingo would be severely damaged if the commission would allow a bingo licensee to conduct the game of bingo on premises open to minors in which illegal activity was taking place just outside the licensee’s bingo area. As for ACGM’s concerns about actions taken by an organization’s members outside the bingo gaming area, every organization licensed by the commission has a duty to prevent illegal acts by its members and to report any such illegal activities to the commission. See: Section 313.052, RSMo 2000 and 11 CSR 45-30.550.

It would be ludicrous for the commission to create a method by which an organization that is duly licensed by the state of Missouri could operate an illegal enterprise in a room adjacent to or on the same premises where licensed bingo is being conducted with no possibility of penalty from the licensing authority. The commission’s position with regard to premises inspections is solidly founded on the need to ensure the integrity of charitable gaming and thereby protect the public’s interest and trust in charitable bingo operations in Missouri.

Gaming commission, established, members, appointment—meetings—powers, duties—assigned to department of public safety—compensation, expenses—restricted activities—contracts, permissible—criminal records of applicants open to commission

313.004.4 The commission shall perform all duties and have all powers and responsibilities conferred and imposed upon it relating to excursion gambling boats, and, after June 30, 1984, the lawful operation of bingo under this chapter . . .

Restrictions, penalties

313.040. The conducting of bingo is subject to the following restrictions:

(10) No person under the age of sixteen years may play or participate in the conducting of bingo. Any person under the age of sixteen

years may be within the area where bingo is being played only when accompanied by a parent.

Grounds for disciplinary action against licensee

313.052. A holder of any license shall be subject to imposition of penalties, suspension or revocation of such license or other action for any act or failure to act by himself or his agents or employees, that is injurious to the public health, safety, good order and general welfare of the people of the state of Missouri, or that would discredit or tend to discredit charitable bingo in Missouri or the state of Missouri . . .

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.280 Net Receipts from Bingo and Bank Account is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 75–76). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from Chet Doile, Bingo Chairman for the Lake Lotawanna VFW Post. At the public hearing, the Missouri Gaming Commission staff explained the changes and no comments were made.

COMMENT: Concerning the requirement that all funds be deposited the next business day, do they stay up all night counting and preparing a deposit or do they wait for the next day when they have a doctor's appointment? Two (2) or even three (3) days would seem more reasonable.

RESPONSE: The commission does not find the requirement that an organization deposit its bingo funds into its bingo checking account by the next business day following a bingo occasion to be unduly burdensome on an organization. The requirement is designed to protect against theft and fraud, as well as against the commingling of bingo funds with an organization's non-bingo funds.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission under section 313.065, RSMo 2000, the commission rescinds a rule as follows:

11 CSR 45-30.290 Co-Ownership of Bingo Equipment is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 76). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission rescinds a rule as follows:

11 CSR 45-30.300 Equipment Leases, Reasonable Market Rental Rate is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 76). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 11—DEPARTMENT OF PUBLIC SAFETY Division 45—Missouri Gaming Commission Chapter 30—Bingo

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.340 Participation of Full-Time Employee, Full-Time Staff Member or Ordained Member of Clergy is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 76–77). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from the Association of Charitable Games Missouri (ACGM). At the public hearing, the commission staff explained the changes and one (1) comment was made by W.T. Dawson, Legislative Consultant for ACGM.

COMMENT: ACGM inquired as to why part-time employees were not included in the amendment.

RESPONSE: Article III, Section 39(a)(3) of the *Missouri Constitution* prohibits paid staff members of a bingo organization from participating in the conduct, management, or operation of any game of bingo. The Missouri Legislature (legislature) defined this prohibition in section 313.040(2), RSMo 2000, to allow full-time

employees or staff members who volunteer their time to assist in the conduct and management of the game of bingo, provided such employees or staff members are approved by the commission to do so. The commission's current policy is to define a full-time employee or staff member as any person working a reasonable number of hours in a full-time position. Any changes to the restriction imposed by section 313.040(2), to only allow full-time employees or staff members and not part-time employees or staff members to assist in the conduct and management of the game of bingo may only be accomplished by an act of the legislature and not the commission.

Article III, Section 39(a) of the Missouri Constitution. Bingo may be authorized—requirements.

(3) No person shall participate in the management, conduct, or operation of any game unless that person:

(a) Has been a bona fide member of the licensed organization for two years immediately preceding such participation, and volunteers the time and service necessary to conduct the game;

(b) Is not a paid staff person for the licensed organization;

(c) Is not and has never been a professional gambler or gambling promoter;

(d) Has never purchased a tax stamp for wagering or gambling activity;

(e) Has never been convicted of any felony;

(f) Has never been convicted or pleaded nolo contendere to any illegal gambling activity;

(g) Is of good moral character;

Restrictions, penalties.

313.040. The conducting of bingo is subject to the following restrictions:

(2) . . . Any person who is a duly ordained minister of the clergy and any person who is a full-time employee or staff member of the licensed organization employed for at least two years by that organization in a capacity not directly related to the conducting or managing of the game of bingo, who has specific assigned duties under a definite job description with the licensed organization, and who volunteers time and assistance to the organization without compensation for such time and assistance in the conducting and managing of the game of bingo by the organization shall not be considered a paid staff person for the purposes of this subdivision. No full-time employee or staff member shall volunteer such time and assistance to more than one organization nor more than one day in any week. The commission shall establish guidelines for the determination of whether a person is a paid staff person within the meaning of this subdivision and shall specifically approve any full-time employee or staff member of the organization before such employee or staff member may volunteer time and assistance in the conducting and managing of bingo games for any organization. The commission may suspend the approval of any employee or staff member.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission rescinds a rule as follows:

11 CSR 45-30.350 Pull-Tab Cards is rescinded.

A notice of proposed rulemaking containing the proposed rescission was published in the *Missouri Register* on January 3, 2005 (30 MoReg 77). No changes have been made in the proposed rescission, so it is not reprinted here. This proposed rescission becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed rescission was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from Larry Loos, Bingo Chairman for the Friday Optimist of Cape Girardeau. At the public hearing, the commission staff explained the changes and one (1) comment was made by Larry Loos.

COMMENT: Larry Loos offered combined comments on the proposed rescission of 11 CSR 45-30.350 and the proposed amendment to 11 CSR 45-30.355.

RESPONSE: As the majority of Mr. Loos's comments concerned the proposed amendment to 11 CSR 45-30.350, the commission chose to address Mr. Loos's comments in the commission's responses to comments received for the proposed amendment to 11 CSR 45-30.355.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.370 Progressive Games is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 78). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from Jeff Jalovec of Applied Concepts, Inc. At the public hearing, the commission staff explained the changes and no comments were made.

COMMENT: By "progressive" do you mean multiple payouts for a single game (i.e., letter X followed by letter T and then a cover all game)? Do pots carry over from game to game? Is there a carry over of some of the prize money to a subsequent session? Please clarify.

RESPONSE: A bingo licensee may conduct two (2) progressive games per occasion in which the established prize amount must be increased from one (1) occasion to the next scheduled occasion if no player completes the required winning pattern within the specified number of bingo balls drawn as posted by the game operator. The winning prize for a progressive game does not have to be the game's full amount, as one (1) stated consolation prize may be offered and awarded provided the consolation prize is less than the value of the winning prize. The definition of a progressive game and the restrictions placed on such a game by the commission are published in 11 CSR 45-30.370 Progressive Games.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

**11 CSR 45-30.525 Supplier Record Keeping Requirements
is amended.**

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 78-79). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

11 CSR 45-30.545 Contraband is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 79). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from Chet Doile, Bingo Chairman for the Lake Lotawana VFW Post. At the public hearing, the commission staff explained the changes and no comments were made.

COMMENT: In my opinion, any print shop can print what might appear to be bingo faces. It should not be this type of paper that is prohibited, just the use of it.

RESPONSE: Possession of any bingo paper that does not meet the statutory requirements of section 313.004 to 313.085, RSMo, or has not been approved by the commission, by a bingo licensee would discredit or tend to discredit charitable bingo operations in Missouri, as such paper may be used to deceive and defraud the public.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

**11 CSR 45-30.575 Pull-Tab Packaging, Assembly and
Distribution is amended.**

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 79-80). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 45—Missouri Gaming Commission
Chapter 30—Bingo**

ORDER OF RULEMAKING

By the authority vested in the Missouri Gaming Commission (commission) under section 313.065, RSMo 2000, the commission amends a rule as follows:

**11 CSR 45-30.600 Electronic Bingo Card Monitoring Devices
is amended.**

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 3, 2005 (30 MoReg 80). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: A public hearing on this proposed amendment was held on February 4, 2005, and the public comment period ended February 3, 2005. The commission received written comments from Matt Stowers of Good Time Bingo. At the public hearing, the commission staff explained the changes and no comments were made.

COMMENT: To be able to continue to sell and load electronics during early specials as long as other games are not part of the electronics packages could be nothing but beneficial to the organization. By allowing this to happen, no one is at an unfair advantage over another person because the game involved in the electronic units have not been in play during the "early bird" or similar sessions. If the sale of electronics stops at the start of an early session a hall could miss out on an extra thirty to forty-five (30-45) minutes of sales which could be a significant amount of dollars directed to the organizations, especially when calculated over a course of several months or years.

RESPONSE: The amendment to the rule only forbids the downloading of information from electronic bingo cards or disposable paper bingo cards into an Electronic Card Monitoring Device (EBCMD) after the drawing of the first ball for the bingo game being played and not after the drawing of the first ball for a bingo occasion, an amendment which the commission feels adequately addresses Mr. Stowers's concerns.

**Title 11—DEPARTMENT OF PUBLIC SAFETY
Division 75—Peace Officer Standards and
Training Program
Chapter 14—Basic Training Centers**

ORDER OF RULEMAKING

By the authority vested in the director of the Department of Public Safety under section 590.030.1, RSMo Supp. 2004, the director amends a rule as follows:

**11 CSR 75-14.030 Standard Basic Training Curricula and
Objectives is amended.**

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 18, 2005 (30 MoReg 163-164). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 13—DEPARTMENT OF SOCIAL SERVICES
Division 35—Children's Division
Chapter 20—Child Protective Services**

ORDER OF RULEMAKING

By the authority invested in the Children's Division under section 210.145, RSMo Supp. 2004, the director adopts a rule as follows:

**13 CSR 35-20.010 Screening and Classification of Child
Abuse/Neglect Hotline Reports is adopted.**

A notice of proposed rulemaking containing the text of the proposed rule was published in the *Missouri Register* on December 15, 2004, (29 MoReg 2260). No changes have been made in the text of the proposed rule, so it is not reprint here. This proposed rule becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 13—DEPARTMENT OF SOCIAL SERVICES
Division 70—Division of Medical Services
Chapter 20—Pharmacy Program**

ORDER OF RULEMAKING

By the authority vested in the director of the Division of Medical Services under sections 208.153 and 208.201, RSMo 2000, the director hereby amends a rule as follows:

13 CSR 70-20.200 Drug Prior Authorization Process is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 18, 2005 (30 MoReg 171-172). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: The Division of Medical Services (DMS) received one (1) written comment on this amendment.

COMMENT: One (1) comment was received expressing concern about the protocol for testimony before the Drug Prior Authorization (PA) Committee and the Drug Utilization Review (DUR) Board. The commenter requested that the rule be revised to allow all interested and affected parties to make presentations before the PA Committee and the DUR Board.

RESPONSE: While the rule is written to coordinate comments pertaining to a specific drug product through the manufacturer of that product, it is not the intent of DMS to exclude testimony by affected stakeholders requesting to comment on that product. DMS has taken the approach of coordinating comments in this manner in order to allow for the most orderly, effective, and meaningful comment process possible. The language of the proposed amendment is geared to accentuate the need for such comment to be clinically and factually pertinent, avoiding anecdotal, redundant, or personal testimony that is not founded on documented research or evidence-based information. DMS expends maximum effort in thoroughly reviewing each drug product from the standpoint of safety and clinical effectiveness, utilizing data from several sources including the Oregon Center for Evidence-Based Medicine and the University of Missouri Drug Information Center. The final cost-effectiveness analysis incorporates proprietary supplemental rebate information that cannot be shared with the PA Committee, the DUR Board, or the general public. This latter situation makes it very difficult for additional cost-effectiveness information to be included subsequent to our internal analysis. For any product, during the time of our initial information-gathering and internal review of a drug product, DMS will accept written documentation or pertinent information directly from an organization for consideration in our recommendations to the PA Committee and DUR Board.

The Missouri Medicaid preferred product system is juried through a real-time clinical editing process that is virtually transparent to providers and is much less restrictive overall than most other payers' prior authorization processes. In addition, we invite pharmacy providers' input in establishing system or billing changes through quarterly meetings of a separate advisory group, the Pharmacy Advisory Committee.

DMS will continue to directly honor requests to testify on specific drug products without coordination with the product manufacturer, although presentations should be limited to information that is clinically relevant and supported by factual documentation. DMS does not intend to revise the language of the proposed amendment as this could open up the comment process to an unmanageable extent, resulting in an overly cumbersome process.

No changes have been made to the rule as a result of this comment.

**Title 15—ELECTED OFFICIALS
Division 30—Secretary of State
Chapter 50—General**

ORDER OF RULEMAKING

By the authority vested in the commissioner of securities under section 409.6-605, RSMo Supp. 2004, the commissioner amends a rule as follows:

15 CSR 30-50.040 Forms is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 18, 2005 (30 MoReg 172). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 15—ELECTED OFFICIALS
Division 30—Secretary of State
Chapter 54—Exemptions and Federal Covered
Securities

ORDER OF RULEMAKING

By the authority vested in the commissioner of securities under section 409.6-605, RSMo Supp. 2004, the commissioner amends a rule as follows:

15 CSR 30-54.195 Missouri Agricultural Cooperatives is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 18, 2005 (30 MoReg 172–173). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

The Secretary of State is required by sections 347.141 and 359.481, RSMo 2000 to publish dissolutions of limited liability companies and limited partnerships. The content requirements for the one-time publishing of these notices are prescribed by statute. This listing is published pursuant to these statutes. We request that documents submitted for publication in this section be submitted in camera ready 8 1/2" x 11" manuscript.

**Notice of Corporate Dissolution
To All Creditors of and
Claimants Against
C.K. INDUSTRIES, INC.**

On March 28, 2005, C.K. INDUSTRIES, INC., a Missouri corporation, filed its Articles of Dissolution with the Missouri Secretary of State. Dissolution was effective on March 3, 2005.

Said corporation requests that all persons and organizations who have claims against it present them immediately by letter to the corporation at:

C.K. INDUSTRIES, INC.
c/o Christopher L. Kienstra
301 West Ferguson
Woodriver, IL 62095

Or

Anthony J. Soukenik, Esq.
Mariquita L. Barbieri, Esq.
Sandberg, Phoenix & von Gontard P.C.
One City Centre, 15th Floor
St. Louis, MO 63101

All claims must include the name and address of the claimant; the amount claimed; the basis for the claim; and the date(s) on which the event(s) on which the claim is based occurred.

NOTICE: Because of the dissolution of C.K. INDUSTRIES, INC., any claims against it will be barred unless a proceeding to enforce the claim is commenced within two years after the publication date of the two notices authorized by statute, whichever is published last.

NOTICE OF DISSOLUTION TO ALL CREDITORS OF AND CLAIMANTS AGAINST SAMUEL
MEDICAL CLINIC, INC., A MISSOURI CORPORATION

On February 28, 2005, Samuel Medical Clinic, Inc., a Missouri Corporation, filed its Articles of Voluntary Dissolution with the Missouri Secretary of State. Dissolution was effective on the filing date. All persons and organizations with claims against said corporation must submit in writing to L. Dwayne Hackworth, Hackworth, Kime & Hackworth, L.L.C., 1401 North Main, Suite 200, Piedmont, Missouri, 63957, a summary of the claim, including: 1) claimant's name, address and telephone number; 2) amount of claim; 3) date(s) claim arose (or will arise); 4) brief description of the nature of the debt or the basis for the claim and the collateral used as security, if any; and 5) documentation in support of claim.

Notice: Any and all claims against Samuel Medical Clinic, Inc., will be barred unless a proceeding to enforce the claim is commenced within two (2) years after the date of the last publication of the two (one statewide and one county) notices.

**NOTICE OF CORPORATE DISSOLUTION
TO ALL CREDITORS OF AND CLAIMANTS
AGAINST BROWN HOMES, LLC**

On March 9, 2005, Brown Homes, LLC, a Missouri Limited Liability Company ("Company") filed its Articles of Termination with the Missouri Secretary of State. Any claims against the Company may be sent to Brown Homes, LLC, 4260 E. Crosswinds Place, Springfield, MO 65809, attention Randall Brown. Each claim must include the following information:

1. The name, address and phone number of claimant;
2. The amount of the claim;
3. The date on which claim arose;
4. The basis for the claim; and
5. All documentation in support of the claim.

All claims against the Company will be barred unless the proceedings to enforce the claim are commenced within three (3) years after publication of this notice.

“NOTICE OF WINDING UP FOR LIMITED LIABILITY COMPANY

TO ALL CREDITORS AND CLAIMANTS AGAINST **CJ Realty, LLC**, a Missouri limited liability company (the “Company”):

You are hereby notified that the Company has dissolved, effective March 16, 2005, and is in the process of winding up its affairs. All persons having claims against the Company must present their claims in writing and mail their claims to:

William C. Meek
330 N. Jefferson Ave.
Springfield, MO 65806

A claim against the Company will be barred unless a proceeding to enforce the claim is commenced within three years after the publication of this Notice. In order to file a claim with the Company, you must furnish the following: (a) amount of the claim; (b) basis for the claim; and (c) documentation of the claim.”

Rule Changes Since Update to Code of State Regulations

This cumulative table gives you the latest status of rules. It contains citations of rulemakings adopted or proposed after deadline for the monthly Update Service to the *Code of State Regulations*, citations are to volume and page number in the *Missouri Register*, except for material in this issue. The first number in the table cite refers to the volume number or the publication year—27 (2002), 28 (2003), 29 (2004) and 30 (2005). MoReg refers to *Missouri Register* and the numbers refer to a specific *Register* page, R indicates a rescission, W indicates a withdrawal, S indicates a statement of actual cost, T indicates an order terminating a rule, N.A. indicates not applicable, RUC indicates a rule under consideration, and F indicates future effective date.

Rule Number	Agency	Emergency	Proposed	Order	In Addition
1 CSR 10	OFFICE OF ADMINISTRATION State Officials' Salary Compensation Schedule				27 MoReg 189 27 MoReg 1724 28 MoReg 1861 29 MoReg 1610
1 CSR 20-1.010	Personnel Advisory Board and Division of Personnel		30 MoReg 148		
1 CSR 20-3.010	Personnel Advisory Board and Division of Personnel		30 MoReg 148		
1 CSR 20-3.020	Personnel Advisory Board and Division of Personnel		30 MoReg 149		
	DEPARTMENT OF AGRICULTURE				
2 CSR 30-2.010	Animal Health	30 MoReg 139	30 MoReg 149		
2 CSR 30-2.040	Animal Health		30 MoReg 685		
2 CSR 30-10.010	Animal Health		29 MoReg 2257	30 MoReg 651	
2 CSR 30-22.010	Animal Health		29 MoReg 2257R	30 MoReg 651R	
2 CSR 100-7.010	Missouri Agricultural and Small Business Development Authority		30 MoReg 150	This Issue	
2 CSR 100-10.010	Missouri Agricultural and Small Business Development Authority		30 MoReg 151	This Issue	
	DEPARTMENT OF CONSERVATION				
3 CSR 10-6.410	Conservation Commission		30 MoReg 441		
	DEPARTMENT OF ECONOMIC DEVELOPMENT				
4 CSR 15-1.020	Acupuncturist Advisory Committee		30 MoReg 509		
4 CSR 15-1.030	Acupuncturist Advisory Committee		30 MoReg 509		
4 CSR 15-3.010	Acupuncturist Advisory Committee		30 MoReg 511		
4 CSR 30-5.060	Missouri Board for Architects, Professional Engineers, Professional Land Surveyors, and Landscape Architects		30 MoReg 6	This Issue	
4 CSR 30-12.010	Missouri Board for Architects, Professional Engineers, Professional Land Surveyors, and Landscape Architects		29 MoReg 2212	This Issue	
4 CSR 60-1.025	State Board of Barber Examiners		29 MoReg 1804 This Issue	30 MoReg 563	
4 CSR 60-2.015	State Board of Barber Examiners		This Issue		
4 CSR 60-2.040	State Board of Barber Examiners		This Issue		
4 CSR 60-2.060	State Board of Barber Examiners		This Issue		
4 CSR 60-2.070	State Board of Barber Examiners		This Issue		
4 CSR 60-2.080	State Board of Barber Examiners		This Issue		
4 CSR 60-2.090	State Board of Barber Examiners		This Issue		
4 CSR 70-3.010	State Board of Chiropractic Examiners		This Issue		
4 CSR 95-1.005	Committee for Professional Counselors		30 MoReg 8	This Issue	
4 CSR 95-1.010	Committee for Professional Counselors		30 MoReg 10R	This IssueR	
4 CSR 95-1.020	Committee for Professional Counselors		30 MoReg 10R	This IssueR	
			30 MoReg 10	This Issue	
4 CSR 95-1.030	Committee for Professional Counselors		30 MoReg 10R	This IssueR	
4 CSR 95-1.040	Committee for Professional Counselors		30 MoReg 11R	This IssueR	
4 CSR 95-1.050	Committee for Professional Counselors		30 MoReg 11	This Issue	
4 CSR 95-1.060	Committee for Professional Counselors		30 MoReg 15	This Issue	
4 CSR 95-2.010	Committee for Professional Counselors		30 MoReg 18R	This IssueR	
			30 MoReg 18	This Issue	
4 CSR 95-2.020	Committee for Professional Counselors		30 MoReg 19R	This IssueR	
			30 MoReg 20	This Issue	
4 CSR 95-2.021	Committee for Professional Counselors		30 MoReg 25	This Issue	
4 CSR 95-2.030	Committee for Professional Counselors		30 MoReg 27R	This IssueR	
			30 MoReg 27	This Issue	
4 CSR 95-2.040	Committee for Professional Counselors		30 MoReg 29R	This IssueR	
4 CSR 95-2.050	Committee for Professional Counselors		30 MoReg 29R	This IssueR	
4 CSR 95-2.060	Committee for Professional Counselors		30 MoReg 29R	This IssueR	
4 CSR 95-2.065	Committee for Professional Counselors		30 MoReg 29	This Issue	
4 CSR 95-2.070	Committee for Professional Counselors		30 MoReg 34R	This IssueR	
4 CSR 95-2.080	Committee for Professional Counselors		30 MoReg 34R	This IssueR	
4 CSR 95-3.010	Committee for Professional Counselors		30 MoReg 34R 30 MoReg 34	This IssueR This Issue	
4 CSR 95-3.015	Committee for Professional Counselors		30 MoReg 35	This Issue	
4 CSR 95-3.020	Committee for Professional Counselors		30 MoReg 36R	This IssueR	
4 CSR 95-3.030	Committee for Professional Counselors		30 MoReg 37R	This IssueR	
4 CSR 95-3.040	Committee for Professional Counselors		30 MoReg 37R	This IssueR	

Rule Number	Agency	Emergency	Proposed	Order	In Addition
4 CSR 95-3.050	Committee for Professional Counselors		30 MoReg 37R	This IssueR	
4 CSR 95-3.060	Committee for Professional Counselors		30 MoReg 37R	This IssueR	
4 CSR 95-3.070	Committee for Professional Counselors		30 MoReg 38R	This IssueR	
4 CSR 95-3.080	Committee for Professional Counselors		30 MoReg 38R	This IssueR	
4 CSR 95-3.090	Committee for Professional Counselors		30 MoReg 38R	This IssueR	
4 CSR 95-3.100	Committee for Professional Counselors		30 MoReg 38R	This IssueR	
4 CSR 95-3.110	Committee for Professional Counselors		30 MoReg 39R	This IssueR	
4 CSR 95-3.120	Committee for Professional Counselors		30 MoReg 39R	This IssueR	
4 CSR 95-3.130	Committee for Professional Counselors		30 MoReg 39R	This IssueR	
4 CSR 95-3.140	Committee for Professional Counselors		30 MoReg 40R	This IssueR	
4 CSR 95-3.150	Committee for Professional Counselors		30 MoReg 40R	This IssueR	
4 CSR 95-3.160	Committee for Professional Counselors		30 MoReg 40R	This IssueR	
4 CSR 95-3.170	Committee for Professional Counselors		30 MoReg 40R	This IssueR	
4 CSR 95-3.180	Committee for Professional Counselors		30 MoReg 41R	This IssueR	
4 CSR 95-3.190	Committee for Professional Counselors		30 MoReg 41R	This IssueR	
4 CSR 95-3.200	Committee for Professional Counselors		30 MoReg 41R	This IssueR	
4 CSR 95-3.210	Committee for Professional Counselors		30 MoReg 41R	This IssueR	
4 CSR 95-3.220	Committee for Professional Counselors		30 MoReg 42R	This IssueR	
4 CSR 95-4.010	Committee for Professional Counselors		30 MoReg 42R	This IssueR	
4 CSR 100-2.045	Division of Credit Unions		29 MoReg 2214	30 MoReg 563	
4 CSR 100-2.205	Division of Credit Unions		29 MoReg 2215	30 MoReg 563	
4 CSR 110-2.071	Missouri Dental Board		30 MoReg 609		
4 CSR 110-2.090	Missouri Dental Board		30 MoReg 613R		
			30 MoReg 613		
4 CSR 110-2.170	Missouri Dental Board		29 MoReg 1514	30 MoReg 455	
			30 MoReg 616		
4 CSR 110-2.180	Missouri Dental Board		29 MoReg 1514R	30 MoReg 455R	
4 CSR 110-2.181	Missouri Dental Board		29 MoReg 1515R	30 MoReg 455R	
4 CSR 110-2.240	Missouri Dental Board		30 MoReg 616		
4 CSR 110-4.010	Missouri Dental Board		29 MoReg 1515	30 MoReg 455	
4 CSR 110-4.020	Missouri Dental Board		29 MoReg 1516	30 MoReg 457	
4 CSR 110-4.030	Missouri Dental Board		29 MoReg 1527	30 MoReg 460	
4 CSR 110-4.040	Missouri Dental Board		29 MoReg 1531	30 MoReg 462	
4 CSR 120-2.060	Missouri Dental Board		29 MoReg 1542	30 MoReg 563	
4 CSR 145-1.040	Missouri Board of Geologist Registration		This Issue		
4 CSR 145-2.060	Missouri Board of Geologist Registration		This IssueR		
			This Issue		
4 CSR 150-2.080	State Board of Registration for the Healing Arts		29 MoReg 2216	This IssueW	
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4 CSR 150-2.125	State Board of Registration for the Healing Arts		This Issue		
4 CSR 150-2.153	State Board of Registration for the Healing Arts		30 MoReg 619		
4 CSR 150-3.010	State Board of Registration for the Healing Arts		This Issue		
4 CSR 150-3.060	State Board of Registration for the Healing Arts		30 MoReg 622		
4 CSR 150-4.055	State Board of Registration for the Healing Arts		This Issue		
4 CSR 150-6.010	State Board of Registration for the Healing Arts		30 MoReg 622R		
			30 MoReg 622		
4 CSR 150-6.020	State Board of Registration for the Healing Arts		30 MoReg 623		
4 CSR 150-6.025	State Board of Registration for the Healing Arts		30 MoReg 624		
4 CSR 150-6.030	State Board of Registration for the Healing Arts		30 MoReg 624		
4 CSR 150-6.040	State Board of Registration for the Healing Arts		30 MoReg 625		
4 CSR 150-6.050	State Board of Registration for the Healing Arts		30 MoReg 625		
4 CSR 150-6.060	State Board of Registration for the Healing Arts		30 MoReg 625		
4 CSR 150-6.070	State Board of Registration for the Healing Arts		30 MoReg 626		
4 CSR 150-7.135	State Board of Registration for the Healing Arts		30 MoReg 626		
4 CSR 220-1.010	State Board of Pharmacy		30 MoReg 42		
4 CSR 220-2.010	State Board of Pharmacy		30 MoReg 42		
4 CSR 220-2.020	State Board of Pharmacy		30 MoReg 43		
4 CSR 220-2.030	State Board of Pharmacy		30 MoReg 46	This Issue	
4 CSR 220-2.050	State Board of Pharmacy		30 MoReg 48		
4 CSR 220-5.030	State Board of Pharmacy		30 MoReg 48		
4 CSR 232-1.040	Missouri State Committee of Interpreters		This Issue		
4 CSR 232-2.030	Missouri State Committee of Interpreters		This Issue		
4 CSR 232-3.010	Missouri State Committee of Interpreters		This Issue		
4 CSR 232-3.010	Missouri State Committee of Interpreters		This Issue		
4 CSR 233-1.040	State Committee of Marital and Family Therapists		30 MoReg 511		
4 CSR 240-2.061	Public Service Commission		30 MoReg 687		
4 CSR 240-3.130	Public Service Commission		30 MoReg 627		
4 CSR 240-3.135	Public Service Commission		30 MoReg 628		
4 CSR 240-3.513	Public Service Commission		30 MoReg 151	This Issue	
4 CSR 240-29.010	Public Service Commission		30 MoReg 49		
4 CSR 240-29.020	Public Service Commission		30 MoReg 50		
4 CSR 240-29.030	Public Service Commission		30 MoReg 52		
4 CSR 240-29.040	Public Service Commission		30 MoReg 53		
4 CSR 240-29.050	Public Service Commission		30 MoReg 53		
4 CSR 240-29.060	Public Service Commission		30 MoReg 58		

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4 CSR 240-29.070	Public Service Commission		30 MoReg 58		
4 CSR 240-29.080	Public Service Commission		30 MoReg 59		
4 CSR 240-29.090	Public Service Commission		30 MoReg 59		
4 CSR 240-29.100	Public Service Commission		30 MoReg 62		
4 CSR 240-29.110	Public Service Commission		30 MoReg 63		
4 CSR 240-29.120	Public Service Commission		30 MoReg 63		
4 CSR 240-29.130	Public Service Commission		30 MoReg 64		
4 CSR 240-29.140	Public Service Commission		30 MoReg 65		
4 CSR 240-29.150	Public Service Commission		30 MoReg 66		
4 CSR 240-29.160	Public Service Commission		30 MoReg 67		
4 CSR 240-32.060	Public Service Commission		28 MoReg 2147		
4 CSR 240-33.045	Public Service Commission		30 MoReg 573		
4 CSR 240-125.010	Public Service Commission		30 MoReg 365	This Issue	
4 CSR 240-125.020	Public Service Commission		30 MoReg 366	This Issue	
4 CSR 240-125.030	Public Service Commission		30 MoReg 366	This Issue	
4 CSR 240-125.040	Public Service Commission		30 MoReg 367	This Issue	
4 CSR 240-125.050	Public Service Commission		30 MoReg 370	This Issue	
4 CSR 240-125.060	Public Service Commission		30 MoReg 370	This Issue	
4 CSR 240-125.070	Public Service Commission		30 MoReg 373	This Issue	
4 CSR 250-5.030	Missouri Real Estate Commission		30 MoReg 268		
4 CSR 263-2.045	State Committee for Social Workers		This Issue		
4 CSR 263-2.047	State Committee for Social Workers		This Issue		
4 CSR 267-2.020	Office of Tattooing, Body Piercing and Branding		30 MoReg 516		
4 CSR 267-4.020	Office of Tattooing, Body Piercing and Branding		29 MoReg 1542	30 MoReg 564	
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION					
5 CSR 50-340.110	Division of School Improvement		This IssueR		
5 CSR 50-340.150	Division of School Improvement		29 MoReg 1806R	30 MoReg 699R	
			29 MoReg 1806	30 MoReg 699	
5 CSR 60-100.050	Division of Career Education		29 MoReg 1709	30 MoReg 564	
5 CSR 80-670.100	Teacher Quality and Urban Education		29 MoReg 1809	30 MoReg 700	
5 CSR 80-800.200	Teacher Quality and Urban Education		29 MoReg 1711	30 MoReg 564	
5 CSR 80-800.220	Teacher Quality and Urban Education		29 MoReg 1711	30 MoReg 564	
5 CSR 80-800.230	Teacher Quality and Urban Education		29 MoReg 1714	30 MoReg 566	
5 CSR 80-800.260	Teacher Quality and Urban Education		29 MoReg 1715	30 MoReg 566	
5 CSR 80-800.270	Teacher Quality and Urban Education		29 MoReg 1716	30 MoReg 567	
5 CSR 80-800.280	Teacher Quality and Urban Education		29 MoReg 1717	30 MoReg 567	
5 CSR 80-800.350	Teacher Quality and Urban Education		29 MoReg 1719	30 MoReg 568	
5 CSR 80-800.360	Teacher Quality and Urban Education		29 MoReg 1721	30 MoReg 569	
5 CSR 80-800.380	Teacher Quality and Urban Education		29 MoReg 1721	30 MoReg 569	
5 CSR 80-800.400	Teacher Quality and Urban Education		29 MoReg 1725	30 MoReg 572	
5 CSR 90-7.010	Vocational Rehabilitation		29 MoReg 1051		
5 CSR 90-7.100	Vocational Rehabilitation		29 MoReg 1051		
5 CSR 90-7.200	Vocational Rehabilitation		29 MoReg 1052		
5 CSR 90-7.300	Vocational Rehabilitation		29 MoReg 1052		
5 CSR 90-7.310	Vocational Rehabilitation		29 MoReg 1053		
5 CSR 90-7.320	Vocational Rehabilitation		29 MoReg 1053		
5 CSR 100-200.030	Missouri Commission for the Deaf and Hard of Hearing		30 MoReg 519		
5 CSR 100-200.045	Missouri Commission for the Deaf and Hard of Hearing		30 MoReg 519R		
			30 MoReg 519		
5 CSR 100-200.150	Missouri Commission for the Deaf and Hard of Hearing		30 MoReg 520		
5 CSR 100-200.170	Missouri Commission for the Deaf and Hard of Hearing		30 MoReg 520		
5 CSR 100-200.210	Missouri Commission for the Deaf and Hard of Hearing		30 MoReg 521		
5 CSR 100-200.220	Missouri Commission for the Deaf and Hard of Hearing		30 MoReg 522		
DEPARTMENT OF TRANSPORTATION					
7 CSR 10-9.010	Missouri Highways and Transportation Commission		30 MoReg 689		
7 CSR 10-9.020	Missouri Highways and Transportation Commission		30 MoReg 689		
7 CSR 10-9.030	Missouri Highways and Transportation Commission		30 MoReg 691		
7 CSR 10-9.040	Missouri Highways and Transportation Commission		30 MoReg 692		
7 CSR 10-9.050	Missouri Highways and Transportation Commission		30 MoReg 692		
7 CSR 10-9.060	Missouri Highways and Transportation Commission		30 MoReg 693		
7 CSR 10-17.010	Missouri Highways and Transportation Commission		28 MoReg 1563		
7 CSR 10-25.010	Missouri Highways and Transportation Commission				30 MoReg 655
DEPARTMENT OF MENTAL HEALTH					
9 CSR 10-5.205	Director, Department of Mental Health		30 MoReg 270		
9 CSR 10-5.206	Director, Department of Mental Health		30 MoReg 629		
9 CSR 25-3.030	Fiscal Management		30 MoReg 441		

Rule Number	Agency	Emergency	Proposed	Order	In Addition
9 CSR 30-3.132	Certification Standards	29 MoReg 2255	29 MoReg 2258 30 MoReg 444	30 MoReg 572	
9 CSR 45-2.015	Division of Mental Retardation and Developmental Disabilities	29 MoReg 1635	29 MoReg 1725	30 MoReg 572W	
9 CSR 45-2.017	Division of Mental Retardation and Developmental Disabilities		29 MoReg 2258	30 MoReg 572W	
DEPARTMENT OF NATURAL RESOURCES					
10 CSR 10-2.390	Air Conservation Commission		This Issue		
10 CSR 10-5.480	Air Conservation Commission		This Issue		
10 CSR 10-6.065	Air Conservation Commission		30 MoReg 153		30 MoReg 322
10 CSR 10-6.070	Air Conservation Commission		30 MoReg 635		
10 CSR 10-6.075	Air Conservation Commission		30 MoReg 636		
10 CSR 10-6.080	Air Conservation Commission		30 MoReg 638		
10 CSR 10-6.360	Air Conservation Commission		30 MoReg 522		
10 CSR 10-6.380	Air Conservation Commission		30 MoReg 549		
10 CSR 10-6.390	Air Conservation Commission		30 MoReg 553		
10 CSR 20-7.015	Clean Water Commission		This Issue		
10 CSR 20-7.031	Clean Water Commission		This Issue		
10 CSR 23-3.060	Geological Survey and Resource Assessment Division		This Issue		
10 CSR 23-3.060	Geological Survey and Resource Assessment Division	This Issue			
10 CSR 23-3.060	Geological Survey and Resource Assessment Division	This Issue			
10 CSR 40-10.020	Land Reclamation Commission		29 MoReg 1303	30 MoReg 651	
10 CSR 40-10.030	Land Reclamation Commission		29 MoReg 1304	30 MoReg 652	
10 CSR 40-10.040	Land Reclamation Commission		29 MoReg 1305	30 MoReg 652	
10 CSR 40-10.050	Land Reclamation Commission		29 MoReg 1306	30 MoReg 652	
10 CSR 40-10.060	Land Reclamation Commission		29 MoReg 1307	30 MoReg 653	
10 CSR 40-10.070	Land Reclamation Commission		29 MoReg 1308	30 MoReg 653	
10 CSR 40-10.080	Land Reclamation Commission		29 MoReg 1311	30 MoReg 653	
10 CSR 40-10.100	Land Reclamation Commission		29 MoReg 1313	30 MoReg 653	
10 CSR 80	Solid Waste Management				30 MoReg 324
10 CSR 90-2.020	State Parks		29 MoReg 1726		
10 CSR 140-2.020	Division of Energy				30 MoReg 574
DEPARTMENT OF PUBLIC SAFETY					
11 CSR 30-7.020	Office of the Director		30 MoReg 163	This Issue	
11 CSR 40-6.020	Division of Fire Safety		29 MoReg 1809	30 MoReg 463	
11 CSR 40-6.025	Division of Fire Safety		29 MoReg 1812	30 MoReg 463	
11 CSR 40-6.031	Division of Fire Safety		29 MoReg 1812	30 MoReg 464	
11 CSR 40-6.033	Division of Fire Safety		29 MoReg 1815	30 MoReg 464	
11 CSR 40-6.040	Division of Fire Safety		29 MoReg 1815	30 MoReg 464	
11 CSR 40-6.075	Division of Fire Safety		29 MoReg 1815	30 MoReg 464	
11 CSR 40-6.080	Division of Fire Safety		29 MoReg 1816	30 MoReg 464	
11 CSR 45-1.090	Missouri Gaming Commission		30 MoReg 376		
11 CSR 45-5.200	Missouri Gaming Commission		30 MoReg 376		
11 CSR 45-12.020	Missouri Gaming Commission				30 MoReg 481
11 CSR 45-30.025	Missouri Gaming Commission		30 MoReg 67	This Issue	
11 CSR 45-30.030	Missouri Gaming Commission		30 MoReg 68	This Issue	
11 CSR 45-30.035	Missouri Gaming Commission		30 MoReg 68	This Issue	
11 CSR 45-30.040	Missouri Gaming Commission		30 MoReg 68		
11 CSR 45-30.050	Missouri Gaming Commission		30 MoReg 69R	This IssueR	
11 CSR 45-30.060	Missouri Gaming Commission		30 MoReg 69	This Issue	
11 CSR 45-30.070	Missouri Gaming Commission		30 MoReg 69	This Issue	
11 CSR 45-30.135	Missouri Gaming Commission		30 MoReg 70		
11 CSR 45-30.140	Missouri Gaming Commission		30 MoReg 70	This Issue	
11 CSR 45-30.155	Missouri Gaming Commission		30 MoReg 70	This Issue	
11 CSR 45-30.160	Missouri Gaming Commission		30 MoReg 71R	This IssueR	
11 CSR 45-30.170	Missouri Gaming Commission		30 MoReg 71R	This IssueR	
11 CSR 45-30.175	Missouri Gaming Commission		30 MoReg 71	This Issue	
11 CSR 45-30.180	Missouri Gaming Commission		30 MoReg 72	This Issue	
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11 CSR 45-30.270	Missouri Gaming Commission		30 MoReg 75	This Issue	
11 CSR 45-30.280	Missouri Gaming Commission		30 MoReg 75	This Issue	
11 CSR 45-30.290	Missouri Gaming Commission		30 MoReg 76R	This IssueR	
11 CSR 45-30.300	Missouri Gaming Commission		30 MoReg 76R	This IssueR	
11 CSR 45-30.340	Missouri Gaming Commission		30 MoReg 76	This Issue	
11 CSR 45-30.350	Missouri Gaming Commission		30 MoReg 77R	This IssueR	
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11 CSR 45-30.575	Missouri Gaming Commission		30 MoReg 79	This Issue	
11 CSR 45-30.600	Missouri Gaming Commission		30 MoReg 80		
11 CSR 75-13.010	Peace Officer Standards and Training Program		29 MoReg 2218	30 MoReg 572	
11 CSR 75-13.030	Peace Officer Standards and Training Program		29 MoReg 2218	30 MoReg 572	
11 CSR 75-13.060	Peace Officer Standards and Training Program		29 MoReg 2218	30 MoReg 573	
11 CSR 75-14.030	Peace Officer Standards and Training Program		30 MoReg 163	This Issue	
11 CSR 80-9.020	Missouri State Water Patrol		30 MoReg 555		
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12 CSR 10-5.050	Director of Revenue		30 MoReg 164R		
12 CSR 10-5.060	Director of Revenue		30 MoReg 164R		
12 CSR 10-5.070	Director of Revenue		30 MoReg 164R		
12 CSR 10-5.075	Director of Revenue		30 MoReg 164R		
12 CSR 10-5.545	Director of Revenue		30 MoReg 165R		
12 CSR 10-5.550	Director of Revenue		30 MoReg 165R		
12 CSR 10-5.555	Director of Revenue		30 MoReg 165R		
12 CSR 10-5.560	Director of Revenue		30 MoReg 165R		
12 CSR 10-5.565	Director of Revenue		30 MoReg 166R		
12 CSR 10-11.100	Director of Revenue		30 MoReg 166R		
12 CSR 10-11.120	Director of Revenue		30 MoReg 166R		
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12 CSR 10-11.140	Director of Revenue		30 MoReg 167R		
12 CSR 10-23.290	Director of Revenue		29 MoReg 2259	30 MoReg 653W	
12 CSR 10-23.460	Director of Revenue		30 MoReg 167		
12 CSR 10-25.050	Director of Revenue		30 MoReg 167		
12 CSR 10-26.040	Director of Revenue		30 MoReg 168		
12 CSR 10-41.010	Director of Revenue	30 MoReg 5	30 MoReg 80		
12 CSR 10-104.040	Director of Revenue		30 MoReg 83		
12 CSR 10-107.100	Director of Revenue		29 MoReg 2219	30 MoReg 700	
12 CSR 10-110.400	Director of Revenue		30 MoReg 86		
12 CSR 10-114.100	Director of Revenue		30 MoReg 90		
12 CSR 10-400.200	Director of Revenue	30 MoReg 357	30 MoReg 379		
12 CSR 10-400.250	Director of Revenue		30 MoReg 93		
12 CSR 10-405.100	Director of Revenue	30 MoReg 603	30 MoReg 639		
12 CSR 10-405.200	Director of Revenue	30 MoReg 604	30 MoReg 643		
12 CSR 30-3.010	State Tax Commission		29 MoReg 1816	30 MoReg 654	
12 CSR 30-3.020	State Tax Commission		29 MoReg 1816	30 MoReg 654	
12 CSR 30-3.050	State Tax Commission		29 MoReg 1817	30 MoReg 654	
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13 CSR 35-20.010	Children's Division		29 MoReg 2261	This Issue	
13 CSR 35-30.010	Children's Division	30 MoReg 233	30 MoReg 271		
13 CSR 35-50.010	Children's Division	30 MoReg 234	30 MoReg 272		
13 CSR 40-19.020	Division of Family Services	29 MoReg 1637	29 MoReg 1729		
13 CSR 40-110.020	Division of Family Services	30 MoReg 605R	30 MoReg 647R		
13 CSR 40-110.030	Division of Family Services		30 MoReg 561		
13 CSR 70-10.015	Division of Medical Services	This Issue	This Issue		
13 CSR 70-10.080	Division of Medical Services	This Issue	This Issue		
13 CSR 70-10.110	Division of Medical Services	30 MoReg 235	30 MoReg 272		
13 CSR 70-20.200	Division of Medical Services		30 MoReg 171	This Issue	
13 CSR 70-26.010	Division of Medical Services		30 MoReg 383		
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15 CSR 30-50.040	Secretary of State		30 MoReg 172	This Issue	
15 CSR 30-54.195	Secretary of State		30 MoReg 173	This Issue	
15 CSR 40-3.120	State Auditor	29 MoReg 1639R	29 MoReg 2261		
15 CSR 40-3.130	State Auditor	29 MoReg 1639	29 MoReg 2262		
15 CSR 40-3.140	State Auditor	29 MoReg 1651	29 MoReg 2274		
15 CSR 40-3.150	State Auditor	29 MoReg 1661	29 MoReg 2284		
15 CSR 40-3.160	State Auditor	29 MoReg 1673	29 MoReg 2296		
15 CSR 60-13.060	Attorney General		30 MoReg 693		
15 CSR 60-14.010	Attorney General	29 MoReg 1508	29 MoReg 1557	30 MoReg 464	
15 CSR 60-14.020	Attorney General	29 MoReg 1509	29 MoReg 1557	30 MoReg 465	
15 CSR 60-14.030	Attorney General	29 MoReg 1509	29 MoReg 1557	30 MoReg 465	
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16 CSR 20-2.057	Missouri Local Government Employees' Retirement System (LAGERS)		30 MoReg 93	30 MoReg 700	
16 CSR 50-2.110	The County Employees' Retirement Fund		30 MoReg 647		
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19 CSR 10-33.050	Office of the Director		30 MoReg 444		
19 CSR 20-1.025	Division of Environmental Health and Communicable Disease Prevention		30 MoReg 647		
19 CSR 20-20.010	Division of Environmental Health and Communicable Disease Prevention		29 MoReg 1733	30 MoReg 465	
19 CSR 20-20.020	Division of Environmental Health and Communicable Disease Prevention		29 MoReg 1734	30 MoReg 466	
19 CSR 20-50.005	Division of Environmental Health and				

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	Communicable Disease Prevention	30 MoReg 140	30 MoReg 173		
19 CSR 20-50.010	Division of Environmental Health and Communicable Disease Prevention	30 MoReg 141	30 MoReg 174		
19 CSR 20-50.015	Division of Environmental Health and Communicable Disease Prevention	30 MoReg 141	30 MoReg 174		
19 CSR 20-50.020	Division of Environmental Health and Communicable Disease Prevention	30 MoReg 142	30 MoReg 176		
19 CSR 20-50.025	Division of Environmental Health and Communicable Disease Prevention	30 MoReg 143	30 MoReg 178		
19 CSR 20-50.030	Division of Environmental Health and Communicable Disease Prevention	30 MoReg 144	30 MoReg 180		
19 CSR 20-50.035	Division of Environmental Health and Communicable Disease Prevention	30 MoReg 145	30 MoReg 183		
19 CSR 20-50.040	Division of Environmental Health and Communicable Disease Prevention	30 MoReg 145	30 MoReg 185		
19 CSR 25-36.010	Division of Administration		30 MoReg 453		
19 CSR 30-60.010	Division of Senior Services and Regulation		29 MoReg 1817R	30 MoReg 701W	
			29 MoReg 1818	30 MoReg 701W	
19 CSR 30-60.015	Division of Senior Services and Regulation		29 MoReg 1819	30 MoReg 701W	
19 CSR 30-60.020	Division of Health Standards and Licensure		29 MoReg 1819R	30 MoReg 701W	
19 CSR 30-60.025	Division of Senior Services and Regulation		29 MoReg 1820	30 MoReg 701W	
19 CSR 30-60.030	Division of Health Standards and Licensure		29 MoReg 1824R	30 MoReg 702W	
19 CSR 30-60.035	Division of Senior Services and Regulation		29 MoReg 1824	30 MoReg 702W	
19 CSR 30-60.040	Division of Health Standards and Licensure		29 MoReg 1828R	30 MoReg 702W	
19 CSR 30-60.045	Division of Senior Services and Regulation		29 MoReg 1828	30 MoReg 702W	
19 CSR 30-60.050	Division of Health Standards and Licensure		29 MoReg 1832R	30 MoReg 702W	
19 CSR 30-60.055	Division of Senior Services and Regulation		29 MoReg 1832	30 MoReg 702W	
19 CSR 30-60.060	Division of Health Standards and Licensure		29 MoReg 1836R	30 MoReg 703W	
19 CSR 30-60.061	Division of Senior Services and Regulation		29 MoReg 1836	30 MoReg 703W	
19 CSR 30-60.065	Division of Senior Services and Regulation		29 MoReg 1843	30 MoReg 703W	
19 CSR 30-60.070	Division of Health Standards and Licensure		29 MoReg 1848R	30 MoReg 703W	
19 CSR 30-60.071	Division of Senior Services and Regulation		29 MoReg 1848	30 MoReg 703W	
19 CSR 30-60.075	Division of Senior Services and Regulation		29 MoReg 1852	30 MoReg 704W	
19 CSR 30-60.080	Division of Senior Services and Regulation		29 MoReg 1855R	30 MoReg 704W	
			29 MoReg 1855	30 MoReg 704W	
19 CSR 30-60.090	Division of Senior Services and Regulation		29 MoReg 1864R	30 MoReg 704W	
			29 MoReg 1864	30 MoReg 704W	
19 CSR 30-60.095	Division of Senior Services and Regulation		29 MoReg 1874	30 MoReg 705W	
19 CSR 30-60.100	Division of Health Standards and Licensure		29 MoReg 1878R	30 MoReg 705W	
19 CSR 30-60.105	Division of Senior Services and Regulation		29 MoReg 1878	30 MoReg 705W	
19 CSR 30-60.110	Division of Health Standards and Licensure		29 MoReg 1882R	30 MoReg 705W	
19 CSR 30-60.115	Division of Senior Services and Regulation		29 MoReg 1882	30 MoReg 705W	
19 CSR 30-60.120	Division of Health Standards and Licensure		29 MoReg 1887R	30 MoReg 706W	
19 CSR 30-60.125	Division of Senior Services and Regulation		29 MoReg 1887	30 MoReg 706W	
19 CSR 30-60.135	Division of Senior Services and Regulation		29 MoReg 1891	30 MoReg 706W	
19 CSR 30-60.145	Division of Senior Services and Regulation		29 MoReg 1895	30 MoReg 706W	
19 CSR 30-60.155	Division of Senior Services and Regulation		29 MoReg 1898	30 MoReg 706W	
19 CSR 30-61.010	Division of Senior Services and Regulation		29 MoReg 1901R	30 MoReg 707W	
			29 MoReg 1901	30 MoReg 707W	
19 CSR 30-61.015	Division of Senior Services and Regulation		29 MoReg 1903R	30 MoReg 707W	
			29 MoReg 1903	30 MoReg 707W	
19 CSR 30-61.025	Division of Health Standards and Licensure		29 MoReg 1906R	30 MoReg 707W	
19 CSR 30-61.045	Division of Senior Services and Regulation		29 MoReg 1906R	30 MoReg 707W	
			29 MoReg 1906	30 MoReg 708W	
19 CSR 30-61.055	Division of Senior Services and Regulation		29 MoReg 1911R	30 MoReg 708W	
			29 MoReg 1911	30 MoReg 708W	
19 CSR 30-61.060	Division of Senior Services and Regulation		29 MoReg 1915	30 MoReg 708W	
19 CSR 30-61.065	Division of Senior Services and Regulation		29 MoReg 1919	30 MoReg 708W	
19 CSR 30-61.070	Division of Senior Services and Regulation		29 MoReg 1926	30 MoReg 709W	
19 CSR 30-61.075	Division of Senior Services and Regulation		29 MoReg 1932	30 MoReg 709W	
19 CSR 30-61.080	Division of Senior Services and Regulation		29 MoReg 1937	30 MoReg 709W	
19 CSR 30-61.085	Division of Health Standards and Licensure		29 MoReg 1940R	30 MoReg 709W	
19 CSR 30-61.086	Division of Senior Services and Regulation		29 MoReg 1940R	30 MoReg 709W	
			29 MoReg 1940	30 MoReg 710W	
19 CSR 30-61.090	Division of Senior Services and Regulation		29 MoReg 1948	30 MoReg 710W	
19 CSR 30-61.095	Division of Health Standards and Licensure		29 MoReg 1957R	30 MoReg 710W	

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19 CSR 30-61.150	Division of Senior Services and Regulation		29 MoReg 1986	30 MoReg 712W	
19 CSR 30-61.151	Division of Senior Services and Regulation		29 MoReg 1997	30 MoReg 712W\	
19 CSR 30-61.155	Division of Senior Services and Regulation		29 MoReg 2001R	30 MoReg 713W	
			29 MoReg 2001	30 MoReg 713W	
19 CSR 30-61.165	Division of Senior Services and Regulation		29 MoReg 2005R	30 MoReg 713W	
			29 MoReg 2005	30 MoReg 713W	
19 CSR 30-61.170	Division of Senior Services and Regulation		29 MoReg 2009	30 MoReg 713W	
19 CSR 30-61.175	Division of Health Standards and Licensure		29 MoReg 2013R	30 MoReg 714W	
19 CSR 30-61.180	Division of Senior Services and Regulation		29 MoReg 2013	30 MoReg 714W	
19 CSR 30-61.185	Division of Health Standards and Licensure		29 MoReg 2017R	30 MoReg 714W	
19 CSR 30-61.190	Division of Health Standards and Licensure		29 MoReg 2017R	30 MoReg 714W	
19 CSR 30-61.200	Division of Health Standards and Licensure		29 MoReg 2017R	30 MoReg 714W	
19 CSR 30-61.210	Division of Health Standards and Licensure		29 MoReg 2017R	30 MoReg 714W	
19 CSR 30-61.220	Division of Senior Services and Regulation		29 MoReg 2018R	30 MoReg 715W	
			29 MoReg 2018	30 MoReg 715W	
19 CSR 30-61.230	Division of Senior Services and Regulation		29 MoReg 2022	30 MoReg 715W	
19 CSR 30-62.010	Division of Senior Services and Regulation		29 MoReg 2024R	30 MoReg 715W	
			29 MoReg 2024	30 MoReg 715W	
19 CSR 30-62.022	Division of Senior Services and Regulation		29 MoReg 2026R	30 MoReg 716W	
			29 MoReg 2026	30 MoReg 716W	
19 CSR 30-62.032	Division of Health Standards and Licensure		29 MoReg 2029R	30 MoReg 716W	
19 CSR 30-62.042	Division of Senior Services and Regulation		29 MoReg 2029R	30 MoReg 716W	
			29 MoReg 2029	30 MoReg 716W	
19 CSR 30-62.052	Division of Senior Services and Regulation		29 MoReg 2034R	30 MoReg 716W	
			29 MoReg 2034	30 MoReg 717W	
19 CSR 30-62.060	Division of Senior Services and Regulation		29 MoReg 2038	30 MoReg 717W	
19 CSR 30-62.065	Division of Senior Services and Regulation		29 MoReg 2042	30 MoReg 717W	
19 CSR 30-62.070	Division of Senior Services and Regulation		29 MoReg 2049	30 MoReg 717W	
19 CSR 30-62.075	Division of Senior Services and Regulation		29 MoReg 2055	30 MoReg 718W	
19 CSR 30-62.080	Division of Senior Services and Regulation		29 MoReg 2060	30 MoReg 718W	
19 CSR 30-62.082	Division of Health Standards and Licensure		29 MoReg 2063R	30 MoReg 718W	
19 CSR 30-62.087	Division of Senior Services and Regulation		29 MoReg 2063R	30 MoReg 718W	
			29 MoReg 2063	30 MoReg 718W	
19 CSR 30-62.090	Division of Senior Services and Regulation		29 MoReg 2072	30 MoReg 719W	
19 CSR 30-62.092	Division of Health Standards and Licensure		29 MoReg 2082R	30 MoReg 719W	
19 CSR 30-62.100	Division of Senior Services and Regulation		29 MoReg 2082	30 MoReg 719W	
19 CSR 30-62.102	Division of Health Standards and Licensure		29 MoReg 2090R	30 MoReg 719W	
19 CSR 30-62.112	Division of Senior Services and Regulation		29 MoReg 2090R	30 MoReg 719W	
			29 MoReg 2090	30 MoReg 719W	
19 CSR 30-62.120	Division of Senior Services and Regulation		29 MoReg 2095	30 MoReg 720W	
19 CSR 30-62.122	Division of Health Standards and Licensure		29 MoReg 2100R	30 MoReg 720W	
19 CSR 30-62.125	Division of Senior Services and Regulation		29 MoReg 2100	30 MoReg 720W	
19 CSR 30-62.130	Division of Senior Services and Regulation		29 MoReg 2105	30 MoReg 720W	
19 CSR 30-62.132	Division of Health Standards and Licensure		29 MoReg 2111R	30 MoReg 720W	
19 CSR 30-62.140	Division of Senior Services and Regulation		29 MoReg 2111	30 MoReg 721W	
19 CSR 30-62.142	Division of Health Standards and Licensure		29 MoReg 2116R	30 MoReg 721W	
19 CSR 30-62.150	Division of Senior Services and Regulation		29 MoReg 2116	30 MoReg 721W	
19 CSR 30-62.151	Division of Senior Services and Regulation		29 MoReg 2121	30 MoReg 721W	
19 CSR 30-62.152	Division of Health Standards and Licensure		29 MoReg 2126R	30 MoReg 721W	
19 CSR 30-62.162	Division of Senior Services and Regulation		29 MoReg 2126R	30 MoReg 722W	
			29 MoReg 2126	30 MoReg 722W	
19 CSR 30-62.172	Division of Senior Services and Regulation		29 MoReg 2130R	30 MoReg 722W	
			29 MoReg 2130	30 MoReg 722W	
19 CSR 30-62.182	Division of Health Standards and Licensure		29 MoReg 2134R	30 MoReg 722W	
19 CSR 30-62.192	Division of Health Standards and Licensure		29 MoReg 2134R	30 MoReg 723W	
19 CSR 30-62.202	Division of Health Standards and Licensure		29 MoReg 2134R	30 MoReg 723W	
19 CSR 30-62.212	Division of Health Standards and Licensure		29 MoReg 2134R	30 MoReg 723W	
19 CSR 30-62.222	Division of Senior Services and Regulation		29 MoReg 2135R	30 MoReg 723W	
			29 MoReg 2135	30 MoReg 723W	
19 CSR 30-62.224	Division of Senior Services and Regulation		29 MoReg 2140	30 MoReg 723W	
19 CSR 30-62.226	Division of Senior Services and Regulation		29 MoReg 2146	30 MoReg 724W	
19 CSR 30-62.228	Division of Senior Services and Regulation		29 MoReg 2149	30 MoReg 724W	
19 CSR 30-62.230	Division of Senior Services and Regulation		29 MoReg 2152R	30 MoReg 724W	
			29 MoReg 2152	30 MoReg 724W	
19 CSR 30-62.240	Division of Senior Services and Regulation		29 MoReg 2156	30 MoReg 724W	
19 CSR 30-82.050	Division of Senior Services and Regulation		29 MoReg 2305		
19 CSR 30-82.090	Division of Health Standards and Licensure		28 MoReg 2254		
19 CSR 30-86.012	Division of Health Standards and Licensure		29 MoReg 2307	30 MoReg 725	
19 CSR 30-86.032	Division of Health Standards and Licensure		29 MoReg 2308	30 MoReg 725	
19 CSR 30-86.042	Division of Health Standards and Licensure		29 MoReg 2309		
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20 CSR	Medical Malpractice				28 MoReg 489
					29 MoReg 505
					30 MoReg 481
20 CSR	Sovereign Immunity Limits				27 MoReg 2319
					28 MoReg 2265
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20 CSR 200-6.600	Financial Examination		30 MoReg 698R		
20 CSR 300-2.200	Market Conduct Examinations		This Issue		
20 CSR 400-2.170	Life, Annuities and Health		29 MoReg 1755		
20 CSR 500-2.300	Property and Casualty		29 MoReg 2223	30 MoReg 573	
20 CSR 700-6.100	Licensing	29 MoReg 2209	29 MoReg 1587	30 MoReg 388	
20 CSR 700-6.150	Licensing	29 MoReg 2209	29 MoReg 1590	30 MoReg 388	
20 CSR 700-6.160	Licensing		29 MoReg 1593	30 MoReg 389	
20 CSR 700-6.170	Licensing		29 MoReg 1597	30 MoReg 389	
20 CSR 700-6.200	Licensing		29 MoReg 1597	30 MoReg 389	
20 CSR 700-6.250	Licensing		29 MoReg 1598	30 MoReg 389	
20 CSR 700-6.300	Licensing		29 MoReg 1598	30 MoReg 389	
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22 CSR 10-2.010	Health Care Plan	30 MoReg 237R	30 MoReg 275R		
		30 MoReg 237	30 MoReg 275		
22 CSR 10-2.020	Health Care Plan	30 MoReg 240R	30 MoReg 280R		
		30 MoReg 240	30 MoReg 280		
22 CSR 10-2.030	Health Care Plan	30 MoReg 243R	30 MoReg 283R		
		30 MoReg 243	30 MoReg 283		
22 CSR 10-2.045	Health Care Plan	30 MoReg 244R	30 MoReg 283R		
		30 MoReg 244	30 MoReg 284		
22 CSR 10-2.055	Health Care Plan	30 MoReg 245R	30 MoReg 284R		
		30 MoReg 245	30 MoReg 284		
22 CSR 10-2.070	Health Care Plan	30 MoReg 246R	30 MoReg 285R		
		30 MoReg 246	30 MoReg 285		
22 CSR 10-2.075	Health Care Plan	30 MoReg 248R	30 MoReg 286R		
		30 MoReg 248	30 MoReg 287		
22 CSR 10-2.080	Health Care Plan	30 MoReg 249R	30 MoReg 288R		
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22 CSR 10-3.010	Health Care Plan	30 MoReg 250	30 MoReg 289		
22 CSR 10-3.020	Health Care Plan	30 MoReg 253	30 MoReg 291		
22 CSR 10-3.030	Health Care Plan	30 MoReg 256	30 MoReg 294		
22 CSR 10-3.070	Health Care Plan	30 MoReg 257	30 MoReg 297		
22 CSR 10-3.075	Health Care Plan	30 MoReg 258	30 MoReg 298		
22 CSR 10-3.080	Health Care Plan	30 MoReg 259	30 MoReg 299		

Emergency Rules in Effect as of May 2, 2005**Publication****Expires****Department of Agriculture****Animal Health**

2 CSR 30-2.010	Health Requirements Governing the Admission of Livestock, Poultry and Exotic Animals Entering Missouri.	30 MoReg 139	May 31, 2005
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Department of Mental Health**Certification Standards**

9 CSR 30-3.132	Opioid Treatment Program	29 MoReg 2255	May 16, 2005
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Department of Natural Resources**Geological Survey and Resource Assessment Division**

10 CSR 23-3.100	Sensitive Areas	This Issue	September 27, 2005
10 CSR 23-5.050	Construction Standards for Closed-Loop Heat Pump Wells	This Issue	September 27, 2005

Department of Revenue**Director of Revenue**

12 CSR 10-41.010	Annual Adjusted Rate of Interest	30 MoReg 5	June 29, 2005
12 CSR 10-400.200	Special Needs Adoption Tax Credit	30 MoReg 357	July 15, 2005
12 CSR 10-405.100	Homestead Preservation Credit—Procedures	30 MoReg 603	September 15, 2005
12 CSR 10-405.200	Homestead Preservation Credit—Qualifications and Amount of Credit	30 MoReg 604	September 15, 2005

Department of Social Services**Children's Division**

13 CSR 35-30.010	Voluntary Placement Agreement Solely for the Purpose of Accessing Mental Health Services and Treatment for Children Under Age Eighteen (18)	30 MoReg 233	June 30, 2005
13 CSR 35-50.010	Accreditation as Evidence for Meeting Licensing Requirements	30 MoReg 234	June 30, 2005

Family Support Division

13 CSR 40-110.020	Federal Income Tax Refund Offset Fee	30 MoReg 605	September 25, 2005
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Division of Medical Services

13 CSR 70-10.015	Prospective Reimbursement Plan for Nursing Facility Services	This Issue	September 27, 2005
13 CSR 70-10.080	Prospective Reimbursement Plan for HIV Nursing Facility Services	This Issue	September 27, 2005
13 CSR 70-10.110	Nursing Facility Reimbursement Allowance	30 MoReg 235	June 29, 2005

Department of Health and Senior Services**Division of Environmental Health and Communicable Disease Prevention**

19 CSR 20-50.005	Definitions	30 MoReg 140.	June 29, 2005
19 CSR 20-50.010	Eligibility Requirements for Pharmacies, Hospitals and Nonprofit Clinics to Receive Donated Prescription Drugs	30 MoReg 141.	June 29, 2005
19 CSR 20-50.015	Eligibility Requirements for Recipients in the Program	30 MoReg 141.	June 29, 2005
19 CSR 20-50.020	Standards and Procedures for Donating Prescription Drugs	30 MoReg 142.	June 29, 2005
19 CSR 20-50.025	Standards and Procedures for Accepting Donated Prescription Drugs	30 MoReg 143.	June 29, 2005
19 CSR 20-50.030	Standards and Procedures for Inspecting and Storing Donated Prescription Drugs.	30 MoReg 144.	June 29, 2005
19 CSR 20-50.035	Standards and Procedures for Dispensing Donated Prescription Drugs	30 MoReg 145.	June 29, 2005
19 CSR 20-50.040	Record Keeping Requirements.	30 MoReg 145.	June 29, 2005

Department of Insurance**Licensing**

20 CSR 700-1.145	Demonstrating Incompetence, Untrustworthiness or Financial Irresponsibility in the Conduct of Variable Life and Variable Annuity Business by Insurance Producers.	Next Issue	January 1, 2006
20 CSR 700-6.100	Fees and Renewals—Bail Bond Agents, General Bail Bond Agents and Surety Recovery Agents	29 MoReg 2209.	June 29, 2005
20 CSR 700-6.150	Initial Basic Training for Bail Bond Agents, General Bail Bond Agents and Surety Recovery Agents	29 MoReg 2209.	June 29, 2005

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22 CSR 10-2.010	Definitions	30 MoReg 237.	June 29, 2005
22 CSR 10-2.010	Definitions	30 MoReg 237.	June 29, 2005
22 CSR 10-2.020	Membership Agreement and Participation Agreement.	30 MoReg 240.	June 29, 2005
22 CSR 10-2.020	Subscriber Agreement and General Membership Provisions.	30 MoReg 240.	June 29, 2005
22 CSR 10-2.030	Contributions	30 MoReg 243.	June 29, 2005

22 CSR 10-2.030	Contributions	30 MoReg 243.	June 29, 2005
22 CSR 10-2.045	Co-Pay and PPO Plan Summaries	30 MoReg 244.	June 29, 2005
22 CSR 10-2.045	Plan Utilization Review Policy	30 MoReg 244.	June 29, 2005
22 CSR 10-2.055	Co-Pay and PPO Plan Benefit Provisions and Covered Charges	30 MoReg 245.	June 29, 2005
22 CSR 10-2.055	Medical Plan Benefit Provisions and Covered Charges	30 MoReg 245.	June 29, 2005
22 CSR 10-2.070	Coordination of Benefits	30 MoReg 246.	June 29, 2005
22 CSR 10-2.070	Coordination of Benefits	30 MoReg 246.	June 29, 2005
22 CSR 10-2.075	Review and Appeals Procedure	30 MoReg 248.	June 29, 2005
22 CSR 10-2.075	Review and Appeals Procedure	30 MoReg 248.	June 29, 2005
22 CSR 10-2.080	Miscellaneous Provisions	30 MoReg 249.	June 29, 2005
22 CSR 10-2.080	Miscellaneous Provisions	30 MoReg 250.	June 29, 2005
22 CSR 10-3.010	Definitions	30 MoReg 250.	June 29, 2005
22 CSR 10-3.020	Subscriber Agreement and General Membership Provisions.	30 MoReg 253.	June 29, 2005
22 CSR 10-3.030	Public Entity Membership Agreement and Participation Period	30 MoReg 256.	June 29, 2005
22 CSR 10-3.070	Coordination of Benefits	30 MoReg 257.	June 29, 2005
22 CSR 10-3.075	Review and Appeals Procedure	30 MoReg 258.	June 29, 2005
22 CSR 10-3.080	Miscellaneous Provisions	30 MoReg 259.	June 29, 2005

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05-01	Rescinds Executive Order 01-09	January 11, 2005	30 MoReg 261
05-02	Restricts new lease and purchase of vehicles, cellular phones, and office space by executive agencies	January 11, 2005	30 MoReg 262
05-03	Closes state's Washington D.C. office	January 11, 2005	30 MoReg 264
05-04	Authorizes Transportation Director to issue declaration of regional or local emergency with reference to motor carriers	January 11, 2005	30 MoReg 266
05-05	Establishes the 2005 Missouri State Government Review Commission	January 24, 2005	30 MoReg 359
05-06	Bans the use of video games by inmates in all state correctional facilities	January 24, 2005	30 MoReg 362
05-07	Consolidates the Office of Information Technology to the Office of Administration's Division of Information Services	January 26, 2005	30 MoReg 363
05-08	Consolidates the Division of Design and Construction to Division of Facilities Management, Design and Construction	February 2, 2005	30 MoReg 433
05-09	Transfers the Missouri Head Injury Advisory Council to the Department of Health and Senior Services	February 2, 2005	30 MoReg 435
05-10	Transfers and consolidates in-home care for elderly and disabled individuals from the Department of Elementary and Secondary Education and the Department of Social Services to the Department of Health and Senior Services	February 3, 2005	30 MoReg 437
05-11	Rescinds Executive Order 04-22 and orders the Department of Health and Senior Services and all Missouri health care providers and others that possess influenza vaccine adopt the Center for Disease Control and Prevention, Advisory Committee for Immunization Practices expanded priority group designations as soon as possible and update the designations as necessary	February 3, 2005	30 MoReg 439
05-12	Designates members of staff with supervisory authority over selected state agencies	March 8, 2005	30 MoReg 607

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04-01	Establishes the Public Safety Officer Medal of Valor, and the Medal of Valor Review Board	February 3, 2004	29 MoReg 294
04-02	Designates staff having supervisory authority over agencies	February 3, 2004	29 MoReg 297
04-03	Creates the Missouri Automotive Partnership	January 14, 2004	29 MoReg 151
04-04	Creates the Missouri Methamphetamine Education and Prevention Task Force	January 27, 2004	29 MoReg 154
04-05	Establishes a Missouri Methamphetamine Treatment Task Force	January 27, 2004	29 MoReg 156
04-06	Establishes a Missouri Methamphetamine Enforcement and Environmental Protection Task Force	January 27, 2004	29 MoReg 158
04-07	Establishes the Missouri Commission on Patient Safety and supercedes Executive Order 03-16	February 3, 2004	29 MoReg 299
04-08	Transfers the Governor's Council on Disability and the Missouri Assistive Technology Advisory Council to the Office of Administration	February 3, 2004	29 MoReg 301
04-09	Requires vendors to disclose services performed offshore. Restricts agencies in awarding contracts to vendors of offshore services	March 17, 2004	29 MoReg 533
04-10	Grants authority to Director of Department of Natural Resources to temporarily waive regulations during periods of emergency and recovery	May 28, 2004	29 MoReg 965
04-11	Declares regional state of emergency because of the need to repair electrical outages by various contractors, including a Missouri contractor. Allows temporary exemption from federal regulations	May 28, 2004	29 MoReg 967
04-12	Declares emergency conditions due to severe weather in all Northern and Central Missouri counties	June 4, 2004	29 MoReg 968
04-13	Declares June 11, 2004 to be day of mourning for President Ronald Reagan	June 7, 2004	29 MoReg 969
04-14	Establishes an Emancipation Day Commission. Requests regular observance of Emancipation Proclamation on June 19	June 17, 2004	29 MoReg 1045
04-15	Declares state of emergency due to lost electrical service in St. Louis region	July 7, 2004	29 MoReg 1159
04-16	Orders a special census be taken in the City of Licking	July 23, 2004	29 MoReg 1245
04-17	Declares that Missouri implement the Emergency Mutual Aid Compact (EMAC) agreement with the State of Florida	August 18, 2004	29 MoReg 1347
04-18	Accepts retrocession of federal jurisdiction over the St. Louis Army Ammunition Plant	August 25, 2004	29 MoReg 1349

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04-19	Implements the EMAC with the State of Florida, activates the EMAC plan, and authorizes the use of the Missouri National Guard	September 10, 2004	29 MoReg 1430
04-20	Reestablishes the Poultry Industry Committee	September 14, 2004	29 MoReg 1432
04-21	Directs the creation of the Forest Utilization Committee within the Missouri Department of Conservation	September 14, 2004	29 MoReg 1434
04-22	Requests health care providers limit influenza vaccinations to high risk persons. Orders various actions by providers, Missouri Department of Health and Senior Services, and Attorney General's Office regarding influenza vaccine supply.	October 25, 2004	29 MoReg 1683
04-23	Creates the Forest Utilization Committee within the Missouri Department of Conservation. Supersedes and rescinds Executive Order 04-21	October 22, 2004	29 MoReg 1685
04-24	Rescinds Executive Order 03-15	October 22, 2004	29 MoReg 1687
04-25	Rescinds Executive Order 03-27	October 22, 2004	29 MoReg 1688
04-26	Authorizes Adjutant General to recognize Noncommissioned Officers with a First Sergeant's ribbon	November 1, 2004	29 MoReg 1791
04-27	Closes state offices Friday November 26, 2004	November 1, 2004	29 MoReg 1792
04-28	Closes state offices Monday, January 10, 2005	December 6, 2004	29 MoReg 2256
04-29	Rescinds Executive Order 04-22	January 4, 2005	30 MoReg 147

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